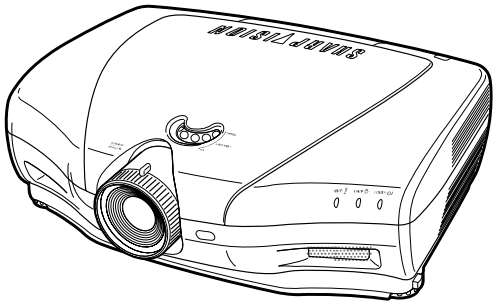
SHARP

# SERVICE MANUAL
# SERVICE-ANLEITUNG

S14M8XV-Z1200



## PROJECTOR
## PROJEKTOR

## MODEL
## MODELL XV-Z12000

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

Im Interesse der Benutzersicherheit (erforderliche Sicherheitsregeln in einigen Ländern) muß das Gerät in seinen Originalzustand gebracht werden. Außerdem dürfen für die spezifizierten Bauteile nur identische Teile verwendet werden.

**SHARP CORPORATION**

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

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# Specifications

| | |
|---|---|
| Product type | Projector |
| Model | XV-Z12000 |
| Video system | NTSC 3.58/NTSC 4.43/PAL/PAL-M/PAL-N/PAL 60/SECAM<br>DTV480I/DTV480P/DTV720P/DTV1080I |
| Display method | DLP chip, RGB optical shutter method |
| DLP panel | Panel size: 0.8"<br>Display method: Single Panel Digital Micromirror Device (DMD™) by Texas Instruments<br>Drive method: Digital Light Processing (DLP™)<br>No. of dots: 921,600 dots (1,280 [H] X 720 [V]) |
| Lens | 1—1.35X zoom lens, F2.5—8, f = 32.5—44.0 mm |
| Projection lamp | 270 W SHP lamp |
| S-video input signal | 4-pin Mini DIN connector (INPUT 3)<br>Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated<br>C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated |
| Component input signal | RCA Connector (INPUT 1, 2)<br>Y: 1.0 Vp-p, sync negative, 75 Ω terminated<br>$P_B$: 0.7 Vp-p, 75 Ω terminated<br>$P_R$: 0.7 Vp-p, 75 Ω terminated |
| Horizontal resolution | 520 TV lines (NTSC 3.58 input), 750 TV lines (DTV 720P input) |
| RGB input signal | DVI-I terminal: (INPUT 5)/RCA connector: INPUT 1/2<br><Digital><br>Input impedance 50 Ω<br>Input level 250-1000mV<br><Analog><br>Input Impedance 75 Ω<br>Input level 0.7Vp-p<br><Synchronization signal><br>• Separate sync / Composite sync<br>Input level TTL level<br>Input impedance 1K Ω<br>• Green on sync<br>Input level (Synchronizing input) 0.286Vp-p<br>Input Impedance 75 Ω |
| Video input signal | RCA Connector: VIDEO (INPUT 4), composite video, 1.0 Vp-p, sync negative, 75 Ω terminated |
| Computer control signal | 9-pin D-sub connector (RS-232C Port) |
| Pixel clock | 12—120 MHz |
| Vertical frequency | 43—100 Hz |
| Horizontal frequency | 15—81 kHz |
| Rated voltage | AC 100—240 V |
| Input current | 3.7 A (When using AC100V) |
| Rated frequency | 50/60 Hz |
| Power consumption (normal) | 365 W |
| Power consumption(standby) | About 0.1 W (When using 100 V) |
| Heat dissipation | 1,400 BTU/hour |
| Operating temperature | 41°F to 95°F (+5°C to +35°C) |
| Storage temperature | —4°F to 140°F (—20°C to +60°C) |
| Cabinet | Plastic |
| I/R carrier frequency | 38 kHz |
| Dimensions (approx.) | 18 11/16" X 7" X 15 49/50" (475 (W) X 178 (H) X 406 (D) mm) (main body only)<br>18 11/16" X 7" X 19 1/2" (475 (W) X 178 (H) X 496 (D) mm) (including terminal cover) |
| Weight (approx.) | 20.7 lbs. (9.4 kg) |
| Supplied accessories | Remote control, Two AA size batteries, Power cord (9'10", 3.0 m), DVI to 15-pin D-Sub adaptor, 21pin RCA conversion adaptor, Video cable, Terminal cover, Lens cap (attached), SharpVision Manager Software CD-ROM, Projector operation manual, Sharp Vision Manager operation manual |
| Replacement parts | Lamp unit (Lamp/cage module) (BQC-XVZ100005), Remote control (RRMCGA216WJSA), AA size batteries , Power cord for U.S.:CACCDA024DE01, Power cord for Europe (without U.K) and Korea:QACCVA011WJPZ, Power cord for U.K., Hong Kong and Singapore :QACCBA036WJPZ, Power cord for Australia and New Zealand:QACCLA018WJPZ, DVI to 15-pin D-Sub adaptor (QCNWGA010WJPZ : except for U.S.), 21pin RCA conversion adaptor (QSOCZ0361CEZZ : for Europe without U.K. and Korea), Video cable (QCNWGA001WJZZ : except for U.S), Terminal cover (CCOVA1985CE03), Lens cap (PCAPH1056CESA), SharpVision Manager Software CD-ROM (UDSKAA040WJZZ), Projector operation manual for U.S.:TiNS-A970WJZZ, Projector operation manual for 7 European language:TiNS-A972WJZZ, Projector operation manual for Chinese, Korean and Arabic language :TiNS-A973WJZZ, SharpVision Manager operation manual (TiNS-B097WJZZ) |

This SHARP projector uses a DMD Chip. This very sophisticated panel contains 921,600 pixels. As with any high technology electronic equipment such as large screen TVs, video systems and video cameras, there are certain acceptable tolerances that the equipment must conform to.

This unit has some inactive pixels within acceptable tolerances which may result in inactive dots on the picture screen. This will not affect the picture quality or the life expectancy of the unit.

*Specifications are subject to change without notice.*

# IMPORTANT SERVICE SAFETY NOTES (for USA)

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and servicing guidelines as follows:**

## WARNING

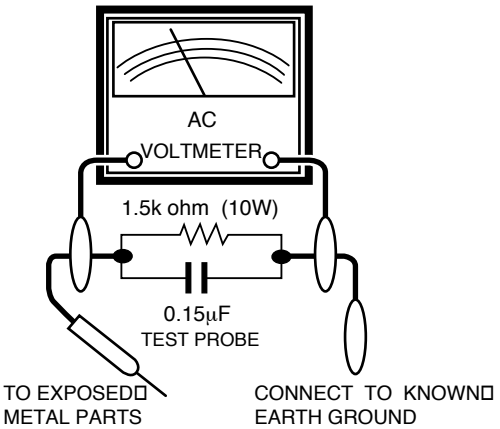
1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

### BEFORE RETURNING THE PROJECTOR: (Fire & Shock Hazard)

**Before returning the projector to the user, perform the following safety checks:**

1. Inspect lead wires are not pinched between the chassis and other metal parts of the projector.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for current leakage in the following manner:

- Plug the AC cord directly into a 120-volt AC outlet, (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15μF capacitor in parallel between all exposed metal cabinet parts and earth ground.
- Use an AC voltmeter with sensitivity of 5000 ohm per volt., or higher, sensitivity to measure the AC voltage drop across the resistor (See Diagram).
- All checks must be repeated with the AC plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these checks.)
  Any reading of 0.3 volts RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.




## SAFETY NOTICE

Many electrical and mechanical parts in DLP Projector have special safety-related characteristics.
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts Lists and Schematic Diagrams. For continued protection, replacement parts must be identical to those used in the original circuit. The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

**WARNING: The bimetallic component has the primary conductive side exposed. Be very careful in handling this component when the power is on.**

## AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les projecteur à DLP présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue.
Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.
Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont identifiées par la marque "⚠" et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques. Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies ou autres accidents.

**AVERTISSEMENT: La composante bimétallique dispose du conducteur primaire dénudé. Faire attention lors de la manipulation de cette composante sous tension.**

# NOTE TO SERVICE PERSONNEL

## UV-RADIATION PRECAUTION

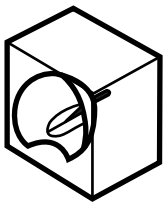
**The light source, lamp, in the projector emits small amounts of UV-Radiation.**

**AVOID DIRECT EYE AND SKIN EXPOSURE.**

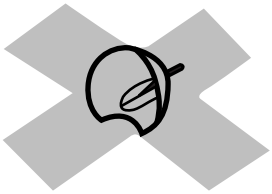
**To ensure safety please adhere to the following:**

1. Be sure to wear sun-glasses when servicing the projector with the lamp turned “on” and the top enclosure removed.

2. Do not operate the lamp outside of the lamp housing.



3. Do not operate for more than 2 hours with the enclosure removed.



## UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type BQC-XVZ100005 rated 355V/250W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

# NOTE POUR LE PERSONNEL D’ENTRETIEN

## PRECAUTION POUR LES RADIATIONS UV

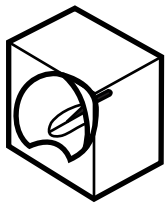
**La source de lumière, la lampe , dans le projecteur émet de petites quantités de radiation UV.**

**EVITEZ TOUTE EXPOSITION DIRECTE DES YEUX ET DE LA PEAU.**

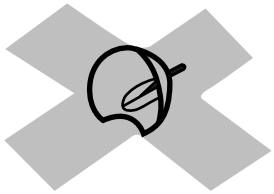
**Pour votre sécurité, nous vous prions de respecter les points suivants:**

1. Toujours porter des lunettes de soleil lors d’un entretien du projecteur avec la lampe allumée et le haut du coffret retiré.

2. Ne pas faire fonctionner la lampe à l’extérieur du boîtier de lampe.



3. Ne pas faire fonctionner plus de 2 heures avec le coffret retiré.



## Précautions pour les radiations UV et la lampe moyenne pression

1. Toujours débrancher la fiche AC lors du remplacement de la lampe.
2. Laisser l’unité refroidir pendant une heure avant de procéder à l’entretien.
3. Ne remplacer qu’avec une lampe du même type. Type BQC-XVZ100005, caractéristique 355V/250W.
4. La lampe émet de petites quantités de radiation UV- éviter tout contact direct avec les yeux.
5. La lampe moyenne pression implique un risque d’explosion. Toujours suivre les instructions d’installation décrites ci-dessous et manipuler la lampe avec soin.

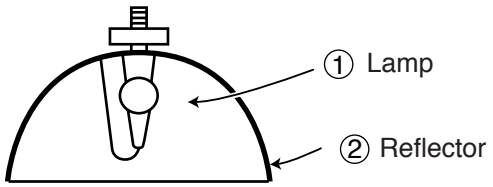
## UV-RADIATION PRECAUTION (Continued)

### ■ Lamp Replacement

**Note:**

Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.) Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector ②.

[Use original replacement only.]




**DANGER !** — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

Since small amounts of UV-radiation are emitted from an opening between the exhaust fans, it is recommended to place the cap of the optional lens on the opening during servicing to avoid eye and skin exposure.

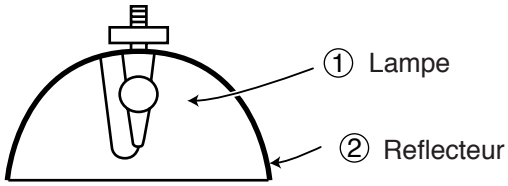
## PRECAUTION POUR LES RADIATIONS UV (Suite)

### ■ Remplacement de la lampe

**Remarque:**

Comme la lampe devient très chaude pendant le fonctionnement de l'unité, son remplacement ne doit être effectué au moins une heure après avoir coupé l'alimentation (pour permettre à la lampe de refroidir). En installant la nouvelle lampe, s'assurer de ne pas toucher la lampe (ampoule). Remplacer la lampe en tenant son réflecteur ②.

[N'utiliser qu'un remplacement d'origine.]




**DANGER !** — Ne jamais mettre sous tension sans la lampe pour éviter un choc électrique ou des dommages des appareils car le stabilisateur génère de hautes tensions à sa mise en route.

Comme de petites quantités de radiation UV sont émises par une ouverture entre les ventilateurs aspirants, il est recommandé de placer le capuchon de l'optique optionnelle sur l'ouverture pendant l'entretien pour éviter une exposition des yeux et la peau.

**WARNING: High brightness light source, do not stare into the beam of light, or view directly. Be especially careful that children do not stare directly in to the beam of light.**

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO MOISTURE OR WET LOCATIONS.**

**CAUTION**

RISK OF ELECTRIC SHOCK.
DO NOT REMOVE SCREWS
EXCEPT SPECIFIED USER
SERVICE SCREW

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE CABINET.
NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT.
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.

The lighting flash with arrowhead within a triangle is intended to tell the user that parts inside the product are risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the manual with the projector.

**CAUTION**
**(POWER Unit)**

For continued protection against risk of fire, replace only with same type and rating of fuse. (F7001, F7002)

**AVERTISSEMENT: Source lumineuse de grande intensité. Ne pas fixer le faisceau lumineux ou le regarder directement. Veiller particulièrement à éviter que les enfants ne fixent directement le faisceau lumineux.**

**AVERTISSEMENT: AFIN D'EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION, NE PAS PLACER CET APPAREIL DANS UN ENDROIT HUMIDE OU MOUILLE.**

**ATTENTION**

RISQUE
D'ELECTROCUTION NE
PASRETIRER LES VIS, A
L'EXCEPTION DES VIS DE
REPARATION UTILISATEUR
SPECIFIEES

ATTENTION: POUR EVITER TOUT RISQUE
D'ELECTROCUTION, NE PAS RETIRER LE CAPOT.
AUCUNE DES PIECES INTERIEURES N'EST REPARABLE
PAR L'UTILISATEUR, A L'EXCEPTION DE L'UNITE DE
LAMPE. POUR TOUTE REPARATION, S'ADRESSER A UN
TECHNICIEN D'ENTRETIEN QUALIFIE.

L'éclair terminé d'une flèche à l'intérieur d'un triangle indique à l'utilisateur que les pi'eces se trouvant dans l'appareil sont susceptibles de provoquer une décharge électrique.

Le point d'exclamation à l'intérieur d'un triangle indique à l'utilisateur que les instructions de fonctionnement et d'entretien sont détaillées dans les documents fournis avec le projecteur.

**PRECAUTION**
**(Unite d'admission)**

Pour une protection continue contre les risques d'incendie, ne remplacer qu'avec un fusible du même type. (F7001, F7002)

## Precautions for using lead-free solder

1 Employing lead-free solder

"Main, Key, R/C Receiver(Rear), R/C Receiver(Front), LED, IRIS DRIVE ,PC I/F and Power PWB" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

Indicates lead-free solder of tin, silver and copper.

2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldening bit, contact our service station or service ranch in your area.

3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettabillty, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be excoeded, remove the bit from the PWB as soon as you conurm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to tum on and off the power of the bit as required.

if a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Becareful when replacing parts with polarity indication on the PWB silk.

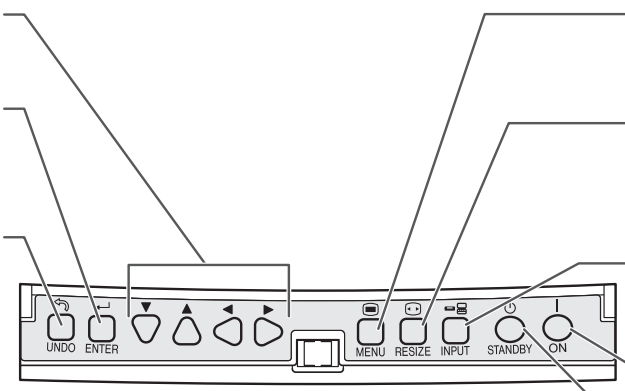
Lead-free wire solder for servicing

| Part No. | ★ | Description | Code |
|---|---|---|---|
| ZHNDAi123250E | J | ϕ0.3mm 250g(1roll) | BL |
| ZHNDAi126500E | J | ϕ0.6mm 500g(1roll) | BK |
| ZHNDAi12801KE | J | ϕ1.0mm 1kg(1roll) | BM |

# Operation Manual

## Part Names

### Projector (Front and Top View)




Adjustment b uttons (▼, ▲, ◀, ▶)
For selecting menu items.

ENTER butto n
For setting items selected or adjusted on the menu.

UNDO button
For undoing an operation or returning to the default settings.

MENU button
For displaying adjustment and setting screens.

RESIZE button
For switching the screen size (SIDE BAR, SMART STRETCH, etc.).

INPUT button
For switching input mode 1, 2, 3, 4 or 5.

ON button
For turning the power on.

STANDBY button
For putting the projector into the standby mode.

Temperature warning indicator
When the internal temperature rises, this indicator will illuminate red.

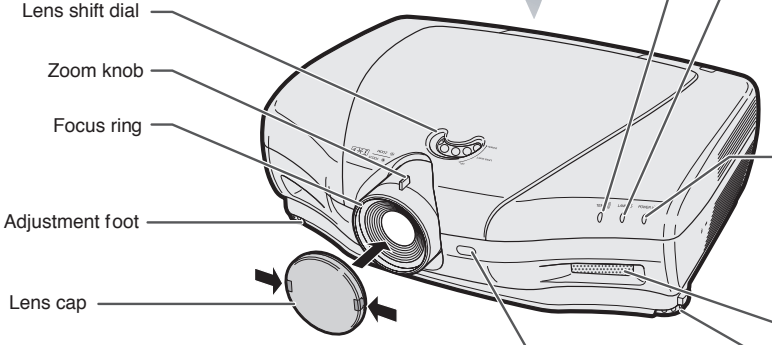
Lamp indicator
Illuminates blue, indicating normal function. Replace the lamp when the indicator illuminates red.

Power indicator
Illuminates red, when the projector is in standby. When the power is turned on, this indicator will illuminate blue.

Intake vent

Adjustment foot

Remote control sensor



Lens shift dial

Zoom knob

Focus ring

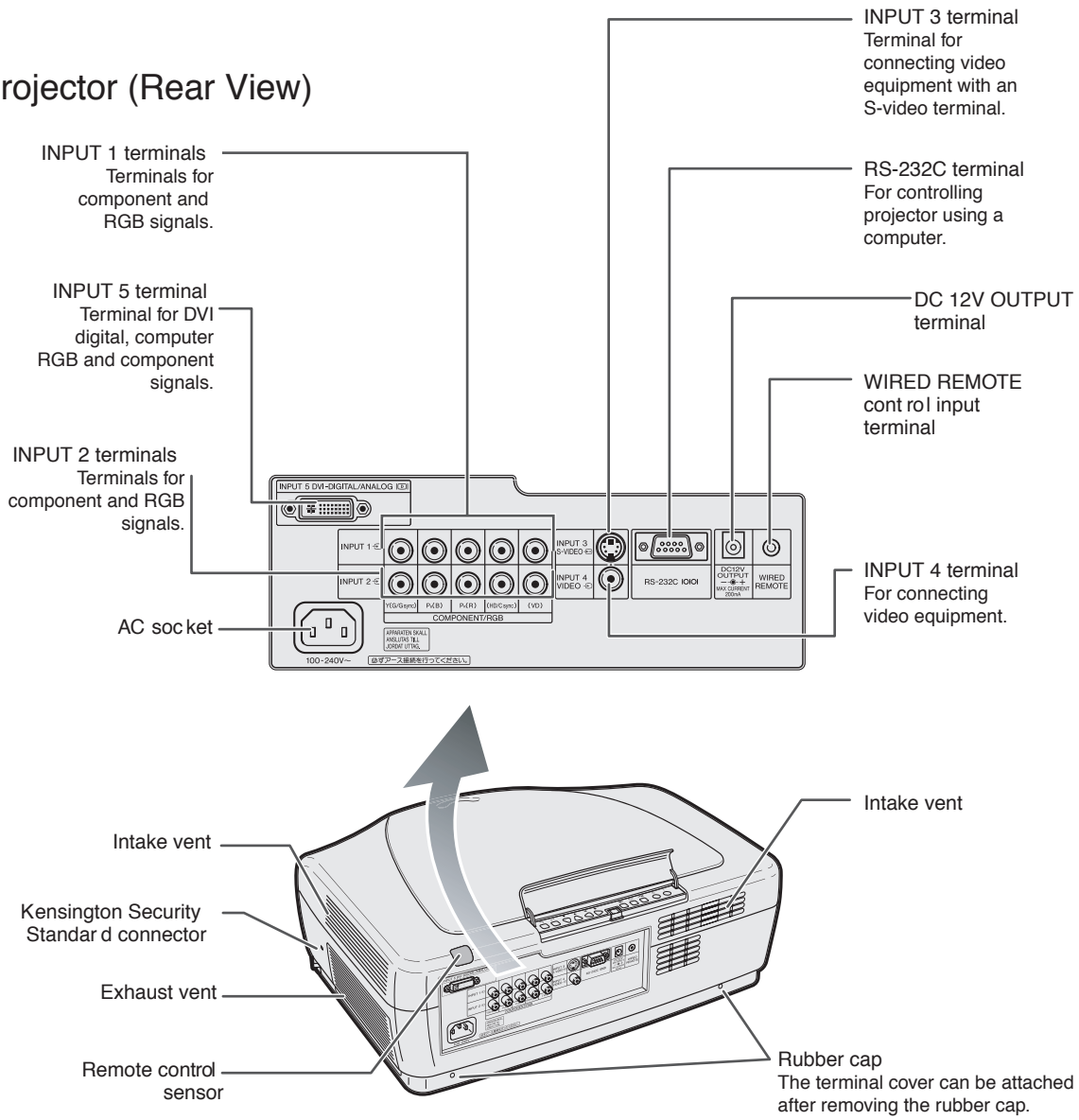
Adjustment foot

Lens cap

Attaching and removing the lens cap
- Press on the two buttons of the lens cap and attach it on the lens. Then release the buttons to lock it in place.
- Press on the two buttons of the lens cap and remove it from the lens.

In this operation manual, the illustration and the screen display are simplified for explanation, and may differ slightly from actual display.

## Projector (Rear View)




Using the Kensington Lock

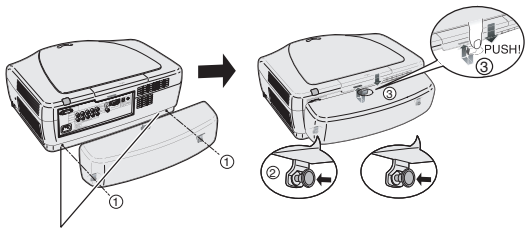
This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure the projector.

Using the Terminal Cover

When the projector is used on a desktop, high mounted or ceiling mounted, attach the terminal cover (supplied) to hide the connecting cables.

Attaching the Terminal Cover

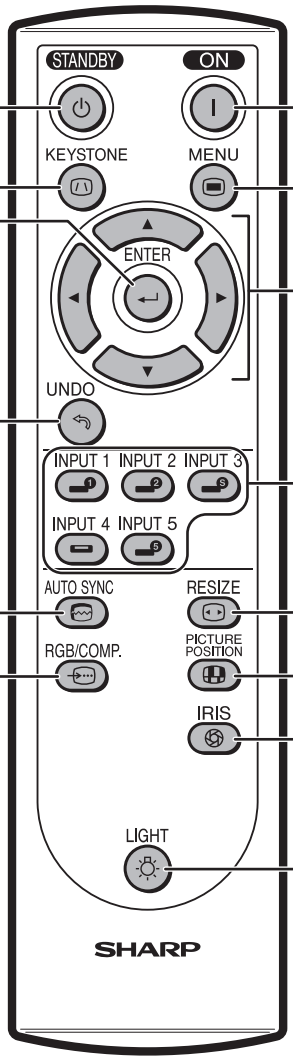
1 Align the hook on the terminal cover with the insert hole in the hook at the back of the projector.
2 Press the hook in the direction indicated with the arrow to fasten the terminal cover to the projector.
3 Insert the terminal cover into the mounting groove on the projector while pushing the tabs inside the terminal cover to the outside with your fingers.




Removing the rubber cap attached on the projector and attach the clips.

## Part Names

# Remote Control (Front View)




STANDBY button
For putting the projector into the standby mode.

KEYSTONE button
For adjusting Keystone Correction or Vertical Size setting.

ENTER button
For setting items selected or adjusted on the menu.

UNDO button
For undoing an operation or returning to the default settings.

AUTO SYNC button
For automatically adjusting images when connected to a computer.

RGB/COMP. button
For switching to the respective input signal type.

ON button
For turning the power on.

MENU button
For displaying adjustment and setting screens.

Adjustment buttons
(▼, ▲, ◀, ▶)
For selecting menu items.

INPUT buttons
For switching to the respective input modes.

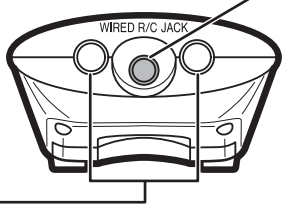
RESIZE button
For switching the screen size (SIDE BAR, SMART STRETCH, etc.).

PICTURE POSITION button
For selecting the picture position.

IRIS button
For switching “HIGH BRIGHTNESS MODE”, “MEDIUM MODE” and “HIGH CONTRAST MODE”.

Backlight button
For lighting all buttons on the remote control.

# Remote Control (Top View)



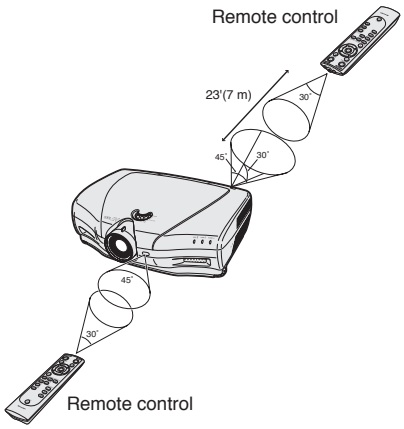

WIRED R/C JACK
For controlling the projector by connecting the remote control to the projector.

Remote control signal transmitters

# Using the Remote Control

## Available Range of the Remote Control

The remote control can be used to control the projector within the ranges shown in the illustration.




Note

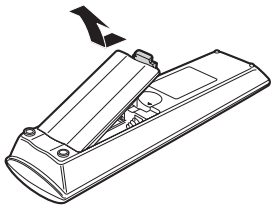
- The signal from the remote control can be reflected off a screen for easy operation. However, the effective distance of the signal may differ due to the screen material.

When using the remote control:

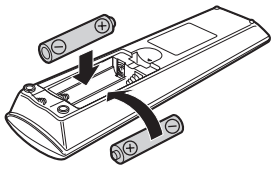
- Be sure not to drop, expose to moisture or high temperature.
- The remote control may malfunction under a fluorescent lamp. Under that circumstance, move the projector away from the fluorescent lamp.

## Inserting the Batteries

The batteries (used is two "AA" size.)

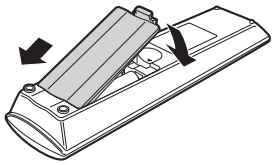


1 Pull down the tab on the cover and remove the cover towards the direction of the arrow.



2 Insert the included batteries.

- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.



3 Insert the lower tab of the cover into the opening, and lower the cover until it clicks in place.

**Incorrect use of the batteries may cause them to leak or explode. Please follow the precautions below.**

⚠ Caution

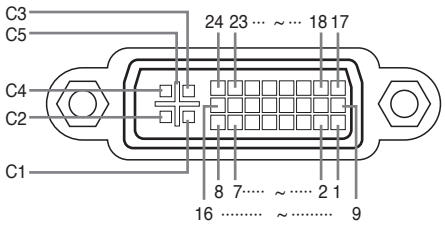
- Insert the batteries making sure the polarities correctly match the ⊕ and ⊖ marks inside the battery compartment.
- Batteries of different types have different properties, therefore do not mix batteries of different types.
- Do not mix new and old batteries.
  This may shorten the life of new batteries or may cause old batteries to leak.
- Remove the batteries from the remote control once they have run out, as leaving them can cause them to leak. Battery fluid from leaked batteries is harmful to your skin, therefore be sure to first wipe them and then remove them using a cloth.

- The batteries included with this projector may exhaust over a short period, depending on how they are kept. Be sure to replace them as soon as possible with new batteries when they have run out.
- Remove the batteries from the remote control if you will not be using the remote control for a long time.

# Connection Pin Assignments

## Connecting Pin Assignments

DVI-I (INPUT 5 / DIGITAL INPUT) port: 29 pin connector




• DVI Digital INPUT

| Pin No. | Signal | Pin No. | Signal |
|---|---|---|---|
| 1 | T.M.D.S data 2– | 16 | Hot plug detection |
| 2 | T.M.D.S data 2+ | 17 | T.M.D.S data 0– |
| 3 | T.M.D.S data 2 shield | 18 | T.M.D.S data 0+ |
| 4 | Not connected | 19 | T.M.D.S data 0 shield |
| 5 | Not connected | 20 | Not connected |
| 6 | DDC clock | 21 | Not connected |
| 7 | DDC data | 22 | T.M.D.S clock shield |
| 8 | Not connected | 23 | T.M.D.S clock+ |
| 9 | T.M.D.S data 1– | 24 | T.M.D.S clock– |
| 10 | T.M.D.S data 1+ | C1 | Not connected |
| 11 | T.M.D.S data 1 shield | C2 | Not connected |
| 12 | Not connected | C3 | Not connected |
| 13 | Not connected | C4 | Not connected |
| 14 | +5V power | C5 | Ground |
| 15 | Ground | | |

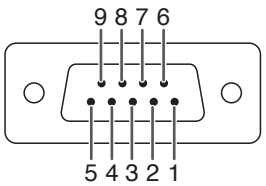
• DVI Analog RGB Input

| Pin No. | Signal | Pin No. | Signal |
|---|---|---|---|
| 1 | Not connected | 16 | Hot plug detection |
| 2 | Not connected | 17 | Not connected |
| 3 | Not connected | 18 | Not connected |
| 4 | Not connected | 19 | Not connected |
| 5 | Not connected | 20 | Not connected |
| 6 | DDC clock | 21 | Not connected |
| 7 | DDC data | 22 | Not connected |
| 8 | Vertical sync | 23 | Not connected |
| 9 | Not connected | 24 | Not connected |
| 10 | Not connected | C1 | Analog input Red |
| 11 | Not connected | C2 | Analog input Green |
| 12 | Not connected | C3 | Analog input Blue |
| 13 | Not connected | C4 | Horizontal sync |
| 14 | +5V power | C5 | Ground |
| 15 | Ground | | |

• DVI Analog Component Input

| Pin No. | Signal | Pin No. | Signal |
|---|---|---|---|
| 1 | Not connected | 16 | Not connected |
| 2 | Not connected | 17 | Not connected |
| 3 | Not connected | 18 | Not connected |
| 4 | Not connected | 19 | Not connected |
| 5 | Not connected | 20 | Not connected |
| 6 | Not connected | 21 | Not connected |
| 7 | Not connected | 22 | Not connected |
| 8 | Not connected | 23 | Not connected |
| 9 | Not connected | 24 | Not connected |
| 10 | Not connected | C1 | Analog input Pr/Cr |
| 11 | Not connected | C2 | Analog input Y |
| 12 | Not connected | C3 | Analog input Pb/Cb |
| 13 | Not connected | C4 | Not connected |
| 14 | Not connected | C5 | Ground |
| 15 | Ground | | |

RS-232C Port: 9-pin D-sub male connector of the DIN-D-sub RS-232C cable

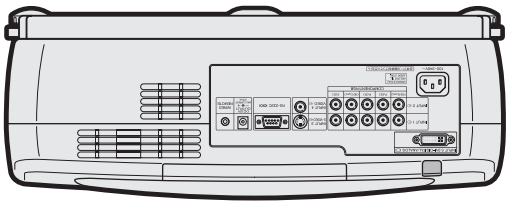



| Pin No. | Signal | Name | I/O | Reference |
|---|---|---|---|---|
| 1 | | | | Not connected |
| 2 | RD | Receive Data | Input | Connected to internal circuit |
| 3 | SD | Send Data | Output | Connected to internal circuit |
| 4 | | Reserved | | Connected to internal circuit |
| 5 | SG | Signal Ground | | Connected to internal circuit |
| 6 | | Reserved | | Connected to internal circuit |
| 7 | | Reserved | | Connected to internal circuit |
| 8 | | Reserved | | Connected to internal circuit |
| 9 | | | | Not connected |

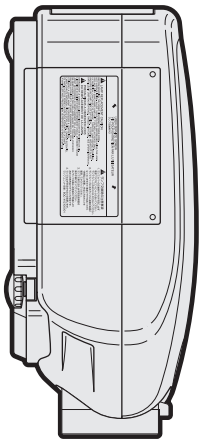
# Dimensions

## Dimensions

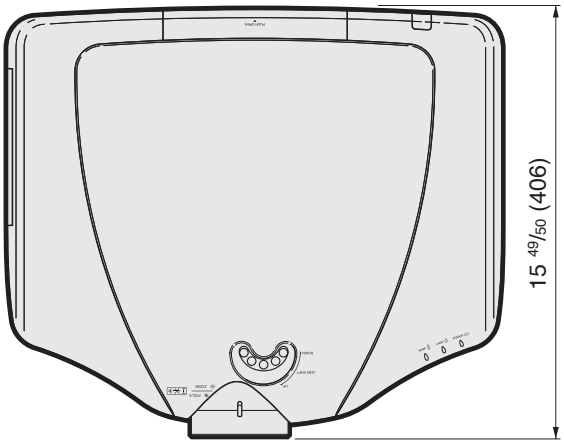
Rear View



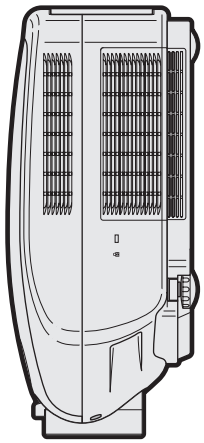
Side View



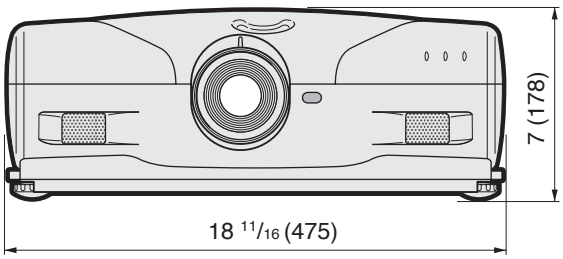
Top View



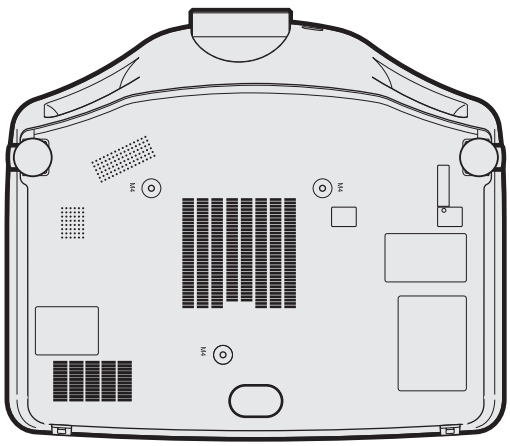

Side View



Front View




Bottom View



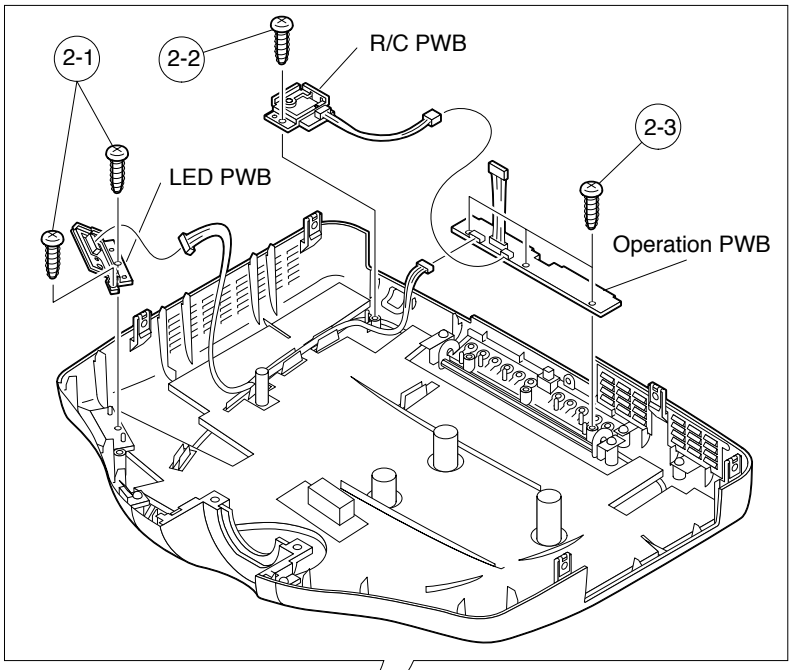
**Unit: inches (mm)**

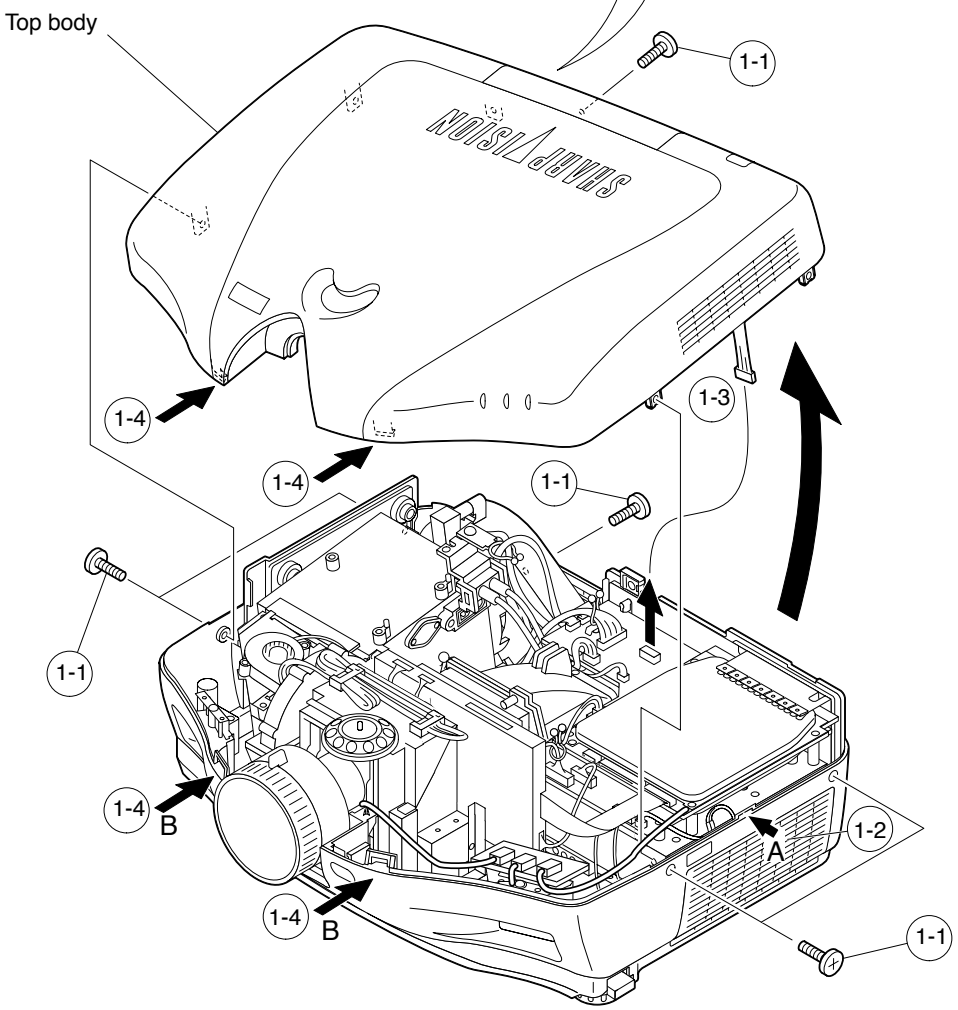
# REMOVING OF MAJOR PARTS

## 1. Removing the top panels

1-1. Remove the six lock screw.
1-2. Press on side Arrow A of the bottom body and Lift the rear body.
1-3. Disconnect the connector.
1-4. Press on front Arrow B of the bottom body and unhook the claws, and detach the top body.

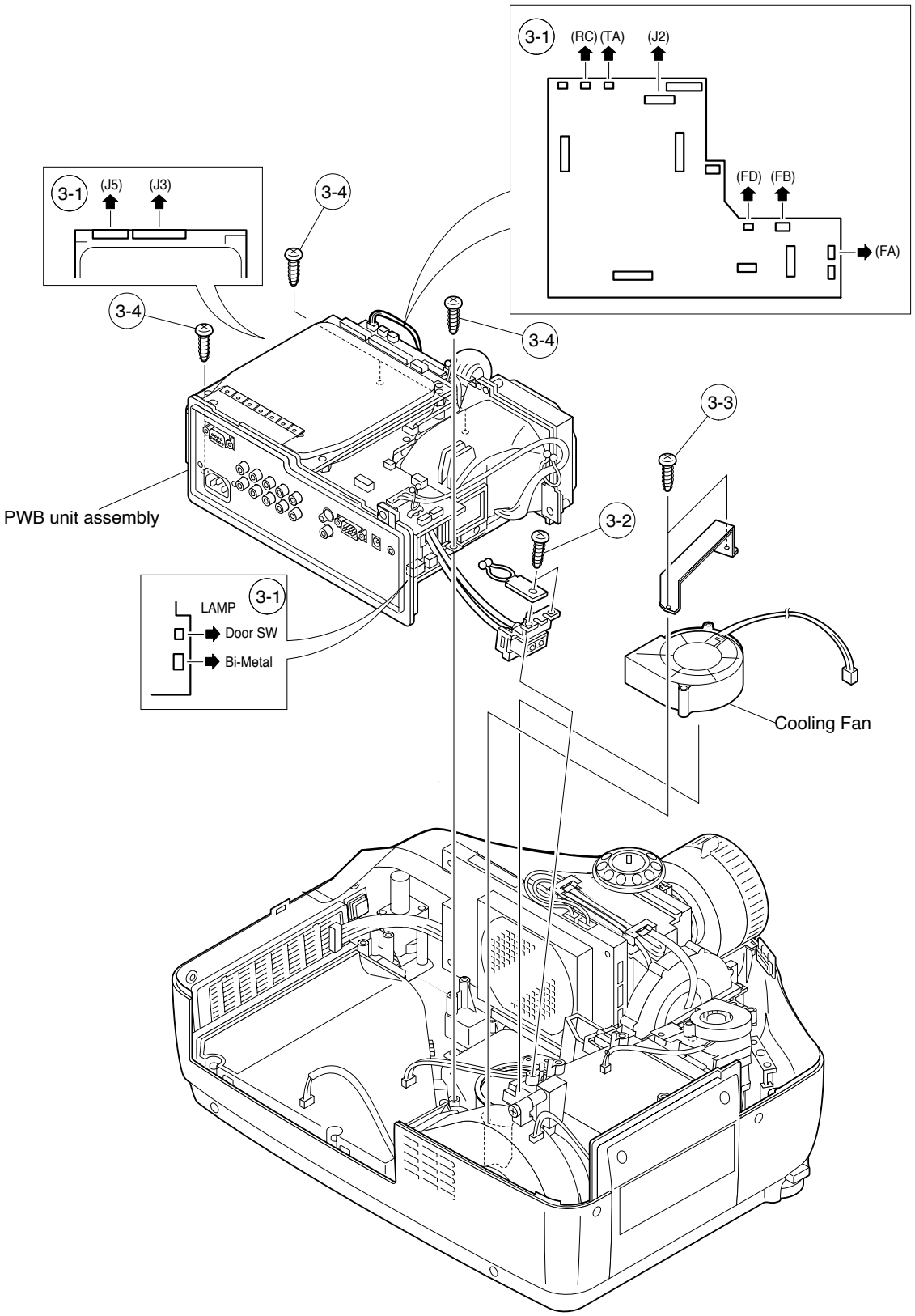
2-1. Remove the two screws and detach the LED PWB.
2-2. Remove the one screw and detach the R/C PWB.
2-3. Remove the three screws and detach the operation PWB.



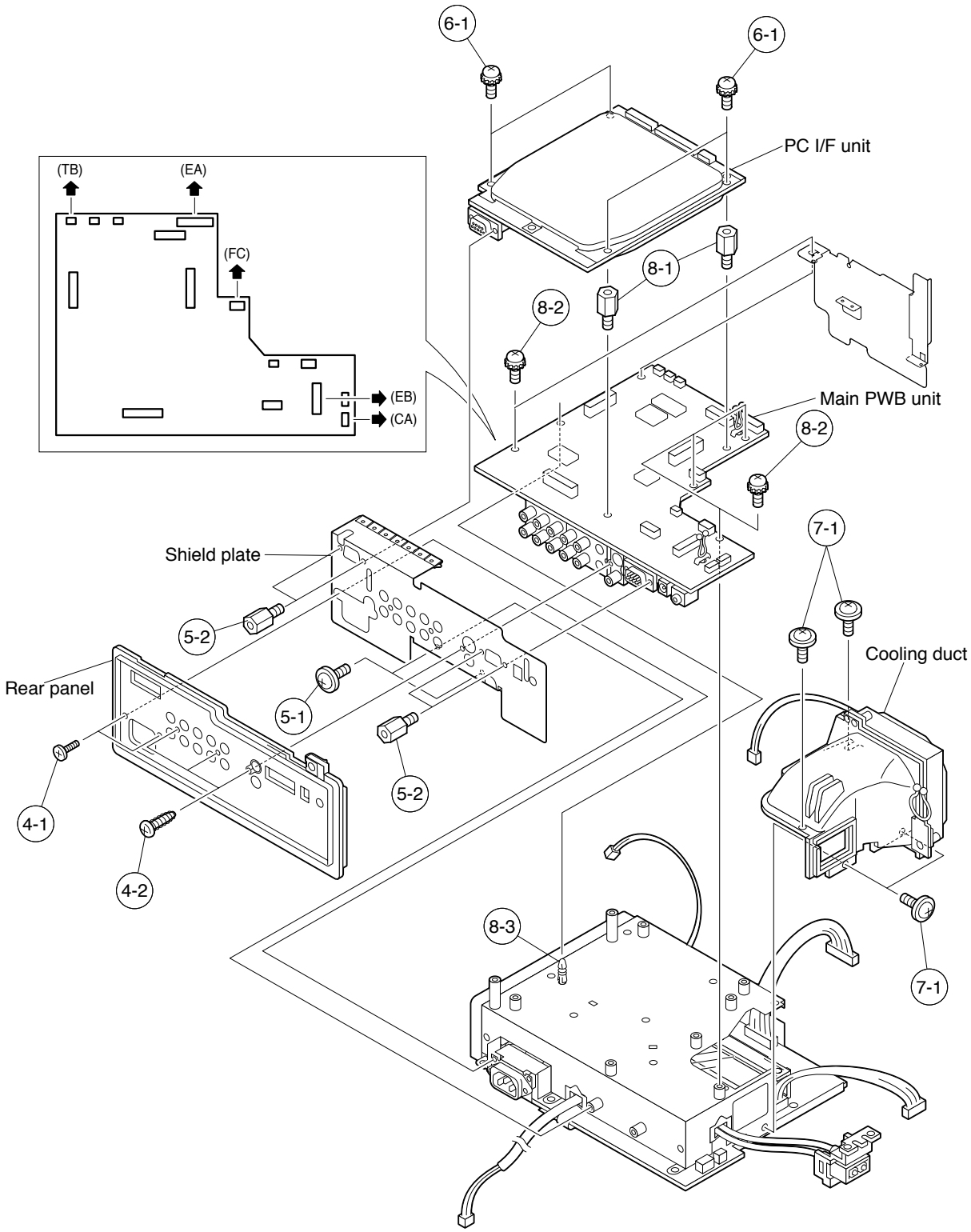
## 2. Removing the cooling fan and PWB unit assembly.

3-1. Disconnect the ten connectors.
3-2. Remove the two screws and detach the lamp socket.
3-3. Remove the two screws and detach the cooling fan.
3-4. Remove the four screws and detach the PWB unit assembly.



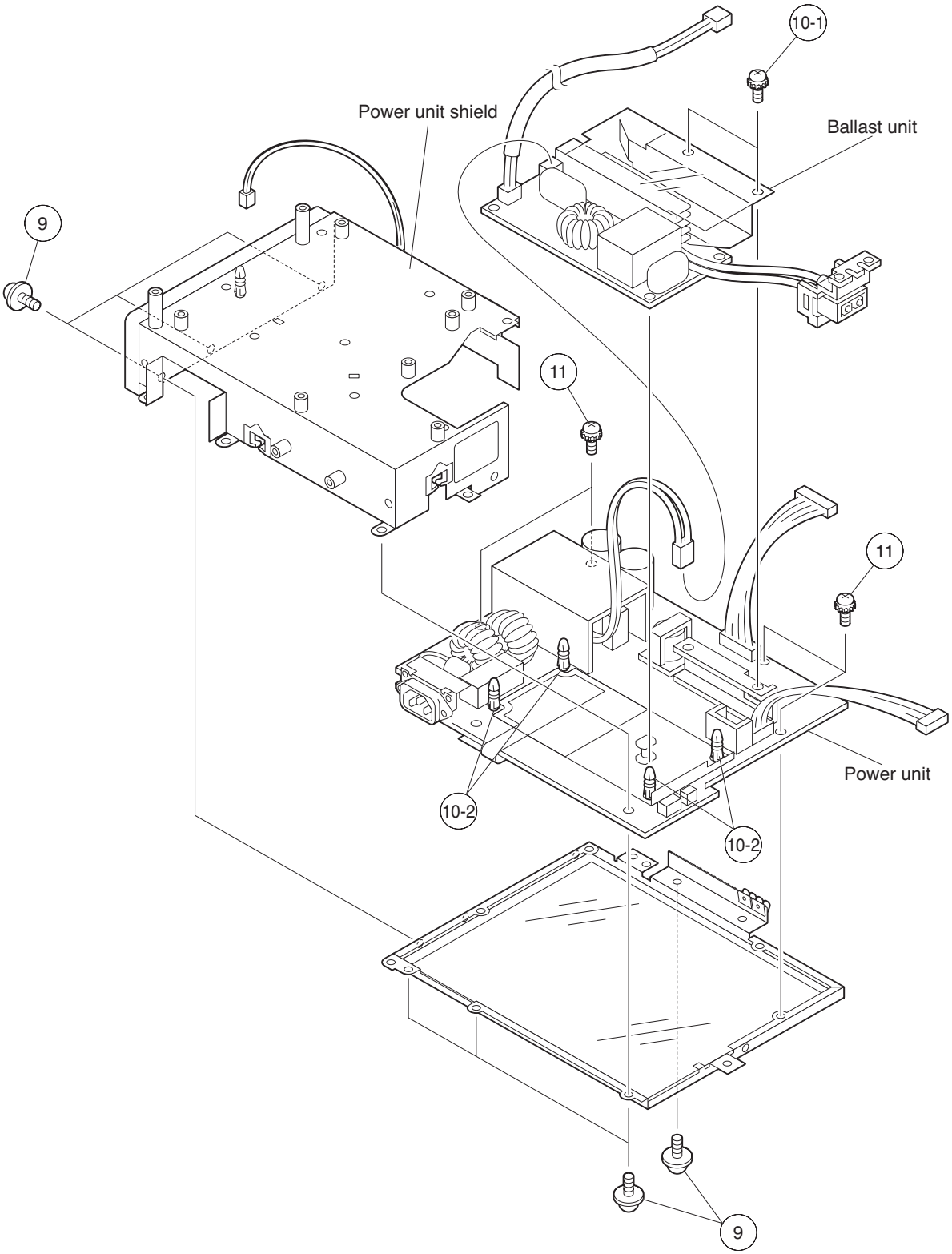
## 3. Removing the rear panel, PC unit, cooling duct and main PWB unit.

4-1. Remove the two screws.
4-2. Remove the three screws and detach the rear panel.
5-1. Remove the two screws.
5-2. Remove the four hexagonal supports and detach the shield plate.
6-1. Remove the four screws and detach the PC I/F unit.
7-1. Remove the four screws and detach the cooling duct.
8-1. Remove the two hexagonal supports.
8-2. Remove the five screws and detach the main PWB unit.
8-3. Remove the lock of the holder.



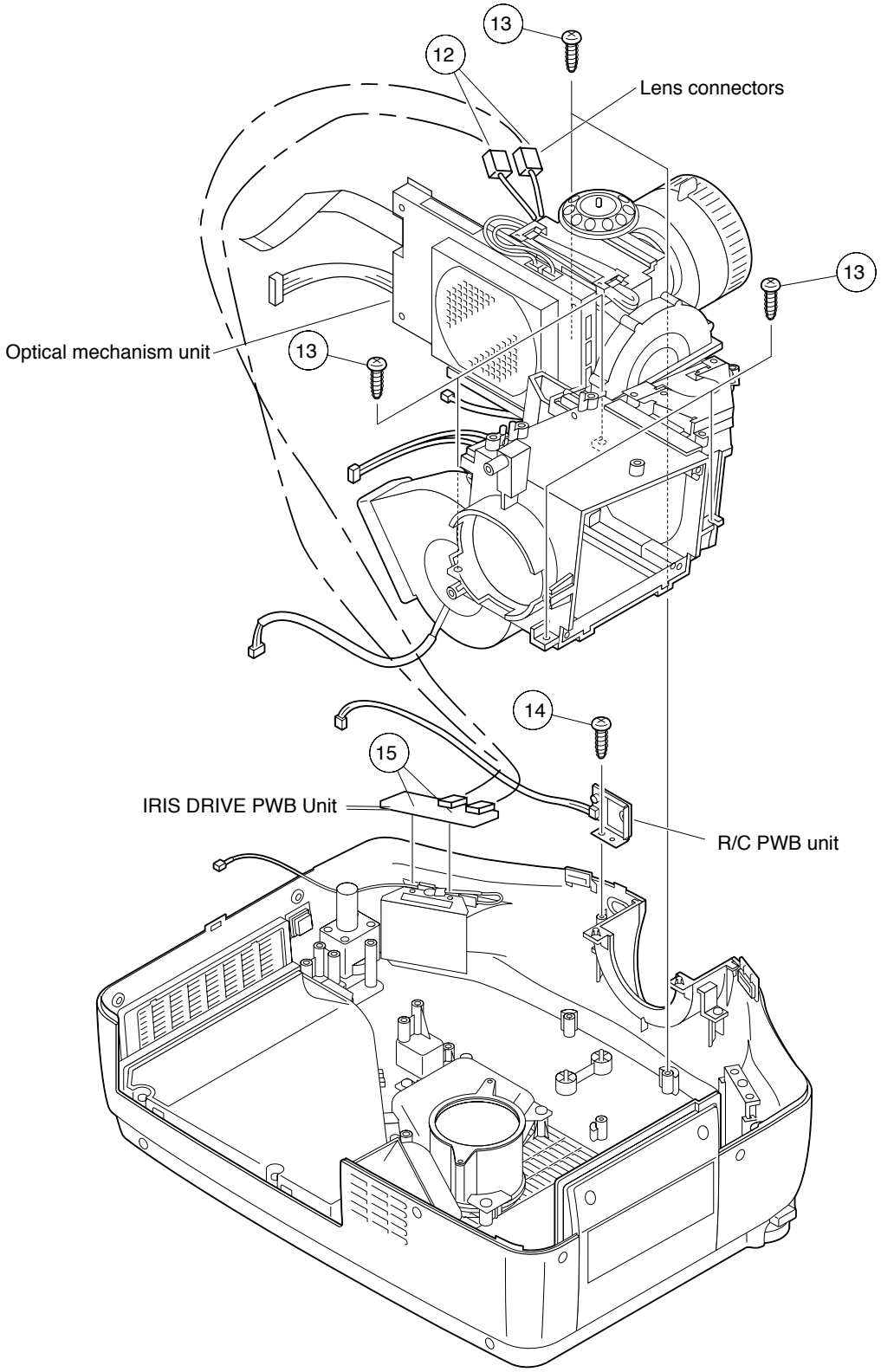
## 4. Removing the power unit shield , power/ballast unit and power unit.

9. Remove the seven screws and detach the power unit shield.
10-1. Remove the two screws.
10-2. Remove the four white supports and detach the ballast unit.
11. Remove the four screws and detach the power unit.



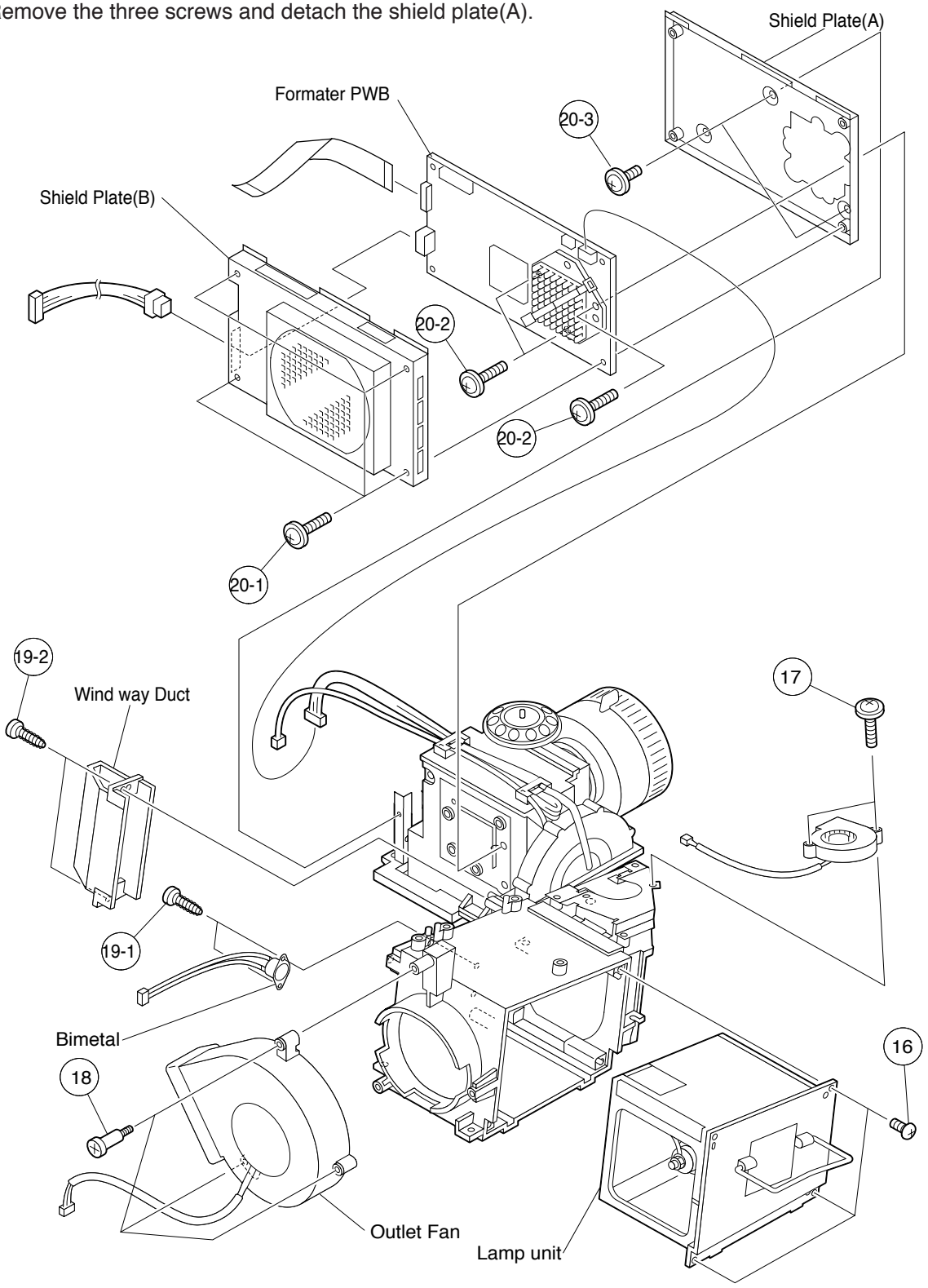
## 5. Removing the optical mechanism unit and R/C PWB unit.

12. Disconnect the lens connectors from the IRIS DRIVER PWB unit.
13. Remove the six screws and detach the optical mechanism unit.
14. Remove the one screw and detach the R/C PWB unit.
15. Remove the Two hooks and detach the IRIS DRIVER PWB unit.



## 6. Removing the lamp unit, CW fan, outlet fan, bimetal, wind way duct, shield plate and formater PWB.

16. Remove the three screws and detach the lamp unit.
17. Remove the two screws and detach the CW fan.
18. Remove the three screws and detach the outlet fan.
19-1. Remove the two screws and detach the bimetal.
19-2. Remove the two screws and detach wind way duct.
20-1. Remove the four screws and detach the shield plate(B).
20-2. Remove the three screws and detach the formater PWB.
20-3. Remove the three screws and detach the shield plate(A).

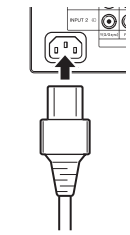


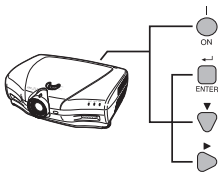
# Resetting the TOTAL LAMP TIMER

● **Resetting the lamp timer**
Reset the lamp timer after replacing the lamp.

**1 Connect the power cord.**
- Plug the power cord into the AC socket of the projector.

**2 Reset the lamp timer.**
- While holding down ENTER, ▼ and ▶ on the projector, press ON on the projector.
- "LAMP 0000H" is displayed, indicating that the lamp timer is reset.






**Info**
- Make sure to reset the lamp timer only when replacing the lamp. If you reset the lamp timer and continue to use the same lamp, this may cause the lamp to become damaged or explode.

■ It is recommended that the lamp (sold separately) be replaced after approximately 1,900 cumulativehours of use or when you notice a significant deterioration in the picture and color quality. The lamp usage time can be checked with "Lamp Timer" in the "Options" menu on the menu screen.
■ For lamp replacement, please consult your nearest Authorized SharpVision Service Center or Dealer.
■ The actual lamp service life may be less than 2,000 hours depending on the environment in which the projector is used.

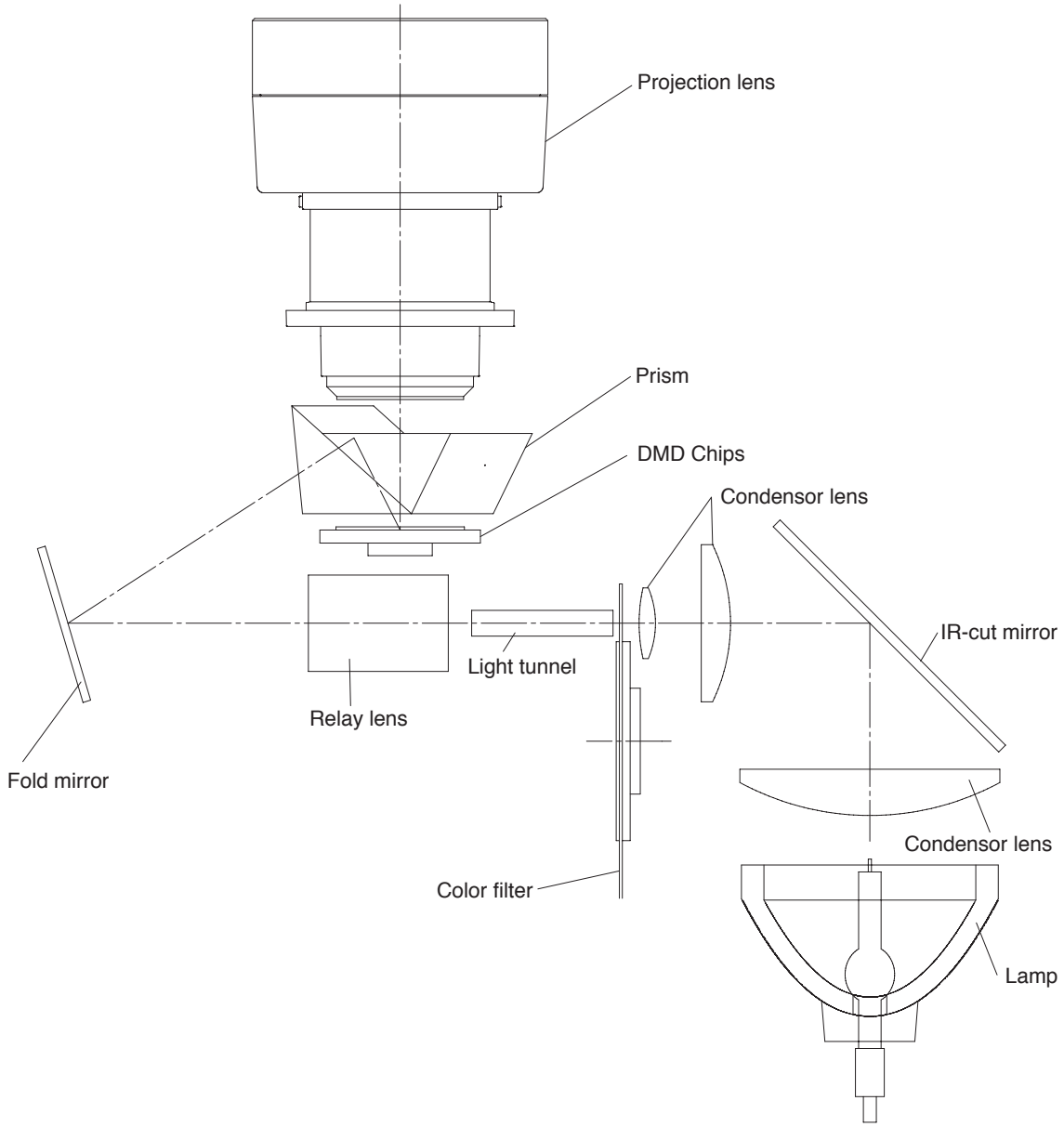
| Maintenance indicator | | | Condition | Problem | Possible Solution |
|---|---|---|---|---|---|
| Temperature warning indicator | Normal: Off | Abnormal: Red on/ Standby | The internal temperature is abnormally high. | • Blocked air intake | • Relocate the projector to an area with proper ventilation. |
| | | | | • Cooling fan breakdown<br>• Internal circuit failure | • Take the projector to your nearest Authorized SharpVision Service Center or Dealer for repair. |
| | | | | • Clogged air intake | • Clean the ventilative holes. |
| Lamp indicator | Blue on* (Blue blinks when the lamp is active.) | Red on/ Standby | The lamp does not illuminate. | • Burnt-out lamp<br>• Lamp circuit failure | • Carefully replace the lamp.<br>• Take the projector to your nearest Authorized SharpVision Service Center or Dealer for repair.<br>• Please exercise care when replacing the lamp. |
| | | Red blinks | Lamp replacement time. | • The lamp usage time has exceeded 1,900 hours. | |
| Power indicator | Blue on*/ Red on | Red blinks | The power indicator blinks in red when the projector is on. | • The exhaust vent cover is open. | • Securely install the cover.<br>• If the power indicator blinks even when the exhaust vent cover is securely installed, contact your nearest Authorized SharpVision Service Center or Dealer for advice. |

* Blue is off when "LED" is set to "OFF".

| Condition | Problem | Possible Solution |
|---|---|---|
| The LAMP REPLACEMENT indicator lights up red, and "LAMP" and "⧈" will flash in yellow in the lower-left corner of the picture. | • Lamp has been used for over 1,900 hours. | • Purchase a replacement lamp unit (lamp/cage module) of the current type BQC-XVZ100005 from your nearest Authorized SharpVision Service Center or Dealer.<br>• Replace the lamp. If you wish, you may have the lamp replaced at your nearest Authorized SharpVision Service Center or Dealer. |
| A significant deterioration of the picture and color quality occurs. | | |
| The power will automatically turn off and the projector will enter stand-by mode. | • Lamp has been used for over 2,000 hours. | |
| "LAMP" and "⧈" will flash in red in the lower-left corner of the picture, and the power will turn off. | | |

# THE OPTICAL UNIT OUTLINE

**Layout for proper setup of the optical components and parts (top view)**

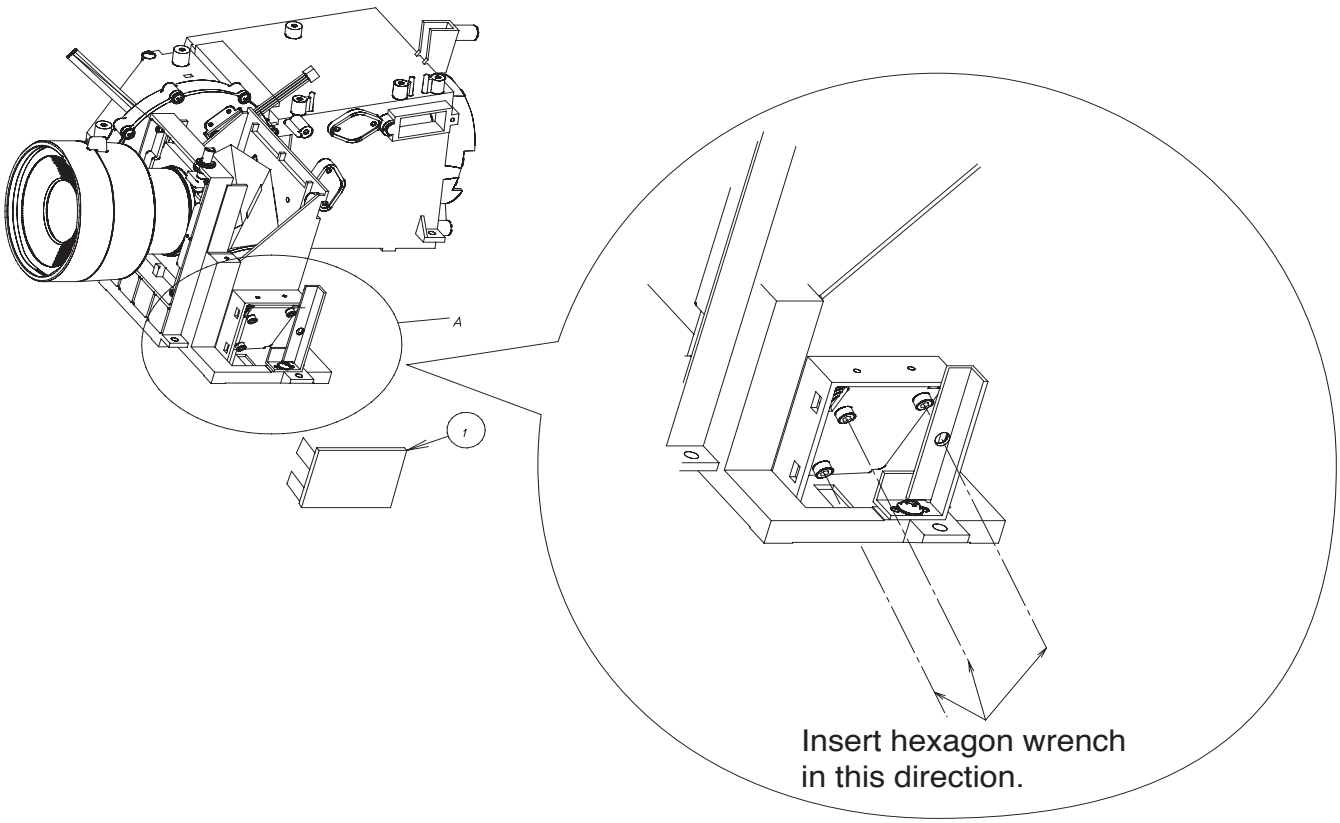



| Item | Descriptions |
|---|---|
| ① Lamp | The DC Light source lamp with parabola reflector. |
| ② Condensor lens, IR-cut mirror and light- tunnel | The condensor lens leads the light generated from the lamp to the end surface of the light-tunnel through the IR-cut mirror.<br>The IR-cut mirror is set in this unit to eliminate the excessive heat by the lamp energy. |
| ③ Color filter | This color filter separates the white light into the 3 colors R,G and B.<br>A photo-sensor should be set in this unit to detect the transition timing properly between color filters.<br>The maximum rotating speed is 9000rpm. |
| ④ Relay lens and fold mirror | This unit leads the illumination spot to effective area on DMD. |
| ⑤ Prism | This prism also leads the illumination spot to effective area on DMD and at the same time leads the reflection lights on the DMD to the projection lens. |
| ⑥ DMD chip | This chip turns on and off in projection to each color component per dot depending on the input source. |
| ⑦ Projection lens | This lens enlarges and projects the incidend light coming from the DMD. |

## Adjusting the mirrors

Make adjustment by the indication territory on the screen to prevent the circumference of the screen from getting dark because a lighting range deviated.

1. Remove the top body so that the optical unit may be seen. Display white only screen on the screen.
2. Detach the mirror adjustment part cover ① on the bottom right of the projection lens.
3. Turn three screws with special hexagon wrench (9HPH10XL120) and adjust so that a part of the screen may not get dark because a lighting range deviated.
4. Mount the adjustment part cover ①.
5. Mount the top panel.




Expansion figure of part A

## Adjusting the back focal distance after replacing the projection lens

Note: A piece of temporary tape is attached on the focus ring that comes with the replacement projection lens. Keep this tape in place until the finish of the adjustment.

(1) Provide a distance of 2.4 m between the set and the screen and adjust the zoom knob to “wide end”.
(2) Adjust the lens shift until the projection lens comes to the same level as the center of the screen.
(3) Detach the optical unit top cover A from behind the projection lens.
(4) Loosen the four hex screws B in the back of the projection lens.
(5) Insert the adjustment screwdriver C (9EVDRIVERZ9000) in the hole D at the back of the lens. Put the center of the screen in the best focus. (Preferably feed the SXGA signal for 1-dot white crosshatch pattern or 1-dot white dot pattern on black background.)
(6) Tighten the four hex screws B to the torque of 0.3 Nm (3.06 kgfcm), and apply screw loctite to them.
(7) Peel the temporary tape off the focus ring of the projection lens.
(8) Attach the optical unit top cover A back into position. Finally fix the two screws E and apply screw loctite to them.

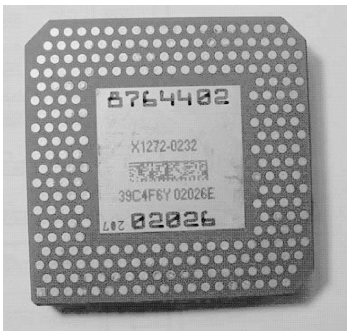
## Replacement of the DMD or formatter unit

The DMD may be broken by static electricity. Always wear an earth band before beginning the work.
The contact of the interposer is minute, so pay sufficient attention when handling.

## Attachment of DMD

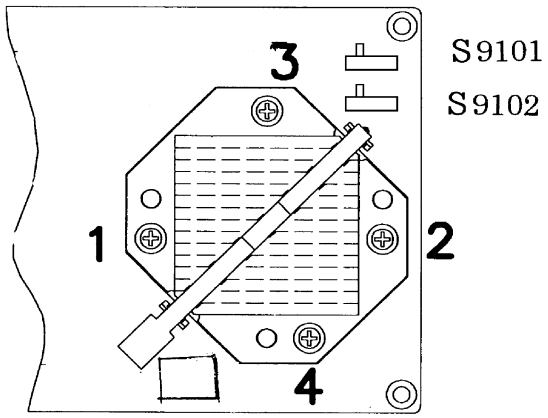
Check of DMD bin voltage

Check the last alphabet of the lowest line of the rear side of the DMD to attach. (Example: 02026E → bin voltage "E")




## Setting of the formatter unit DMD bin voltage

Set S9101 and S9102 to the position of the PWB silk with the same alphabet as the DMD bin voltage.




## Insert the DMD into the interposer

Spray the interposer and the DMD with air.

While widening the claws of the interposer, insert the DMD as if it is dropped in.

Note: If the DMD is pressed in, the interposer is ground and shaving generated by grinding may cause the contact failure. Do not insert it forcibly.

## Joint of DMD and the unit

Wipe to clean the contamination of the PWB contacting part (gold plating part) with ethanol.

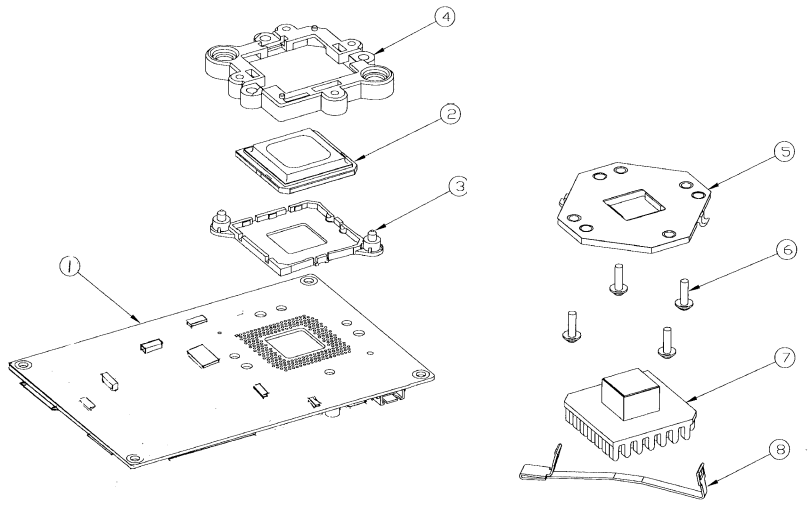
Set the position of the interposer with the DMD attached to the unit PWB, and then cover the clamp.

Sandwich the unit PWB with the backer plate from the reverse side of the unit PWB and tighten with screws.

At this point, firstly tighten the screws temporarily, and retighten them diagonally.

The tightening torque is 1.13 N-m (11.5 kgfcm)

Mount the radiator fin and secure it with a clip.



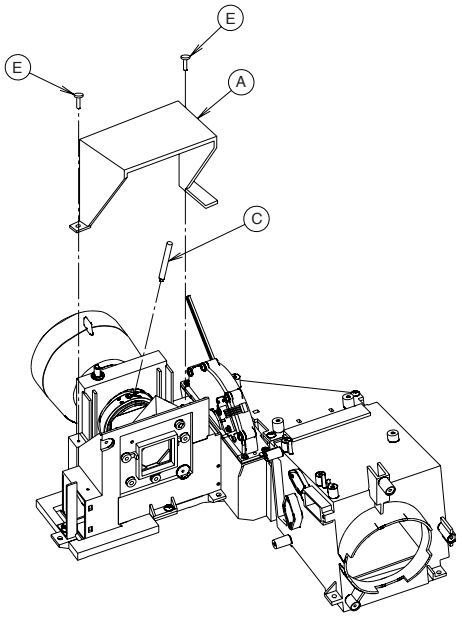

① Formatter unit
② DMD
③ Interposer
④ Clamp
⑤ Backer plate
⑥ Screw (4 pcs)
⑦ Radiator fin
⑧ Clip

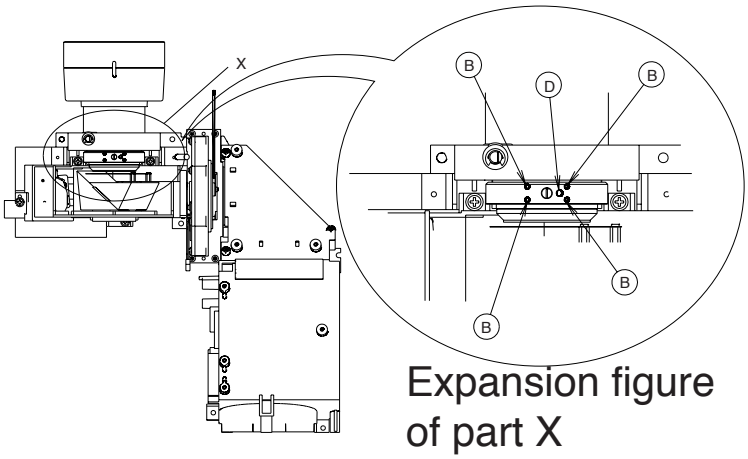
## When the DMD unit has been replaced

Note: DMD chip and Formatter PWB are supplied at the same time, and an exchange only with DMD isn't done.Refer to "REMOVING OF MAJOR PARTS" when exchanging Formatter PWB.

There is no need to readjust the back focal distance of the projection lens. If focusing is noticeably poor, however, make this readjustment.

(1) Provide a distance of 2.4 m between the set and the screen.
(2) Adjust the lens shift until the projection lens comes to the same level as the center of the screen.
(3) Detach the optical unit top cover A from behind the projection lens.
(4) Loosen the four hex screws B in the back of the projection lens.
(5) Adjust the zoom knob at the front of the projection lens to "tele end" and ensure good focusing.
(6) Then adjust the zoom knob at the front of the projection lens to "wide end".
(7) Insert the adjustment screwdriver C (9EVDRIVERZ9000) in the hole D at the back of the lens. Put the center of the screen in the best focus. (Preferably feed the SXGA signal for 1-dot white crosshatch pattern or 1-dot white dot pattern on black background.)
(8) Move the zoom knob from "wide end" back to "tele end" and see if focusing is ensured. If not, repeat the above steps (5), (6) and (7) until the best focus is achieved.
(9) Tighten the four hex screws B to the torque of 0.3 Nm (3.06 kgfcm), and apply screw loctite to them.
(10) Attach the optical unit top cover A back into position. Finally fix the two screws E and apply screw loctite to them.




Expansion figure of part X

# ELECTRICAL ADJUSTMENT

The unit has been adjusted optimally at the time of factory shipment. However, if the screen position is deviated or when exchanging parts, make an adjustment as shown below.

- Turn on the power (lamp on state) and wait for 15 minutes for aging.
- Enter the adjustment process mode with SW2002 (tact switch) on the main unit.
- Select the group to adjust with the DOWN ( ▼ ) key or the UP ( ▲ ) key on the remote control, and enter the adjustment item with the ENTER ( ↵ ) key on the remote control.
- Select the adjustment item with the DOWN ( ▼ ) key or the UP ( ▲ ) key on the remote control.
- Use the LEFT ( ◀ ) key or the RIGHT ( ▶ ) key for adjustment.
- To return from the adjustment item to the adjustment group, use the UNDO ( ↰ ) key.
- To exit the adjustment process mode, execute the factory setting at the end of the adjustment.

  If the factory setting is not executed, the adjusted contents are not reflected.

<Cautions for adjustment>

1) Initialization and factory setting

   If the initialization S2 or the factory setting S5 of EEPROM is carried out, time for writing the data is necessary.

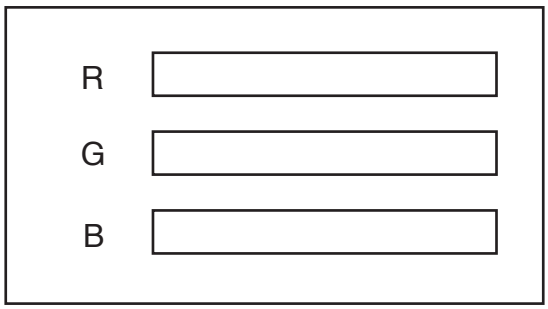
   When the initialization S2 or the factory setting S5 of EEPROM are executed, the OSD display of the adjustment process mode disappears, and INPUT 1 is selected after about 15 seconds. Since the OSD display of the set 2 or the set 5 appears, never turn off the power until this display appears.

2) AUTO adjustment

   At the time of AUTO adjustment, do not bring to the no-signal state. (Do not stop the signal.)

   Otherwise the adjustment data may be changed or deleted.

| No. | Adjusting point | Adjusting conditions | Adjusting procedure |
|---|---|---|---|
| **1** | **EEPROM initialization** | 1. Turn on the power (with the lamp on) and warm up the set for 15 minutes. | 1. Make the following settings.<br>Press SW2002 to enter the process mode. Execute the S2 command on the SSS menu. With the S2 command, all the circuit boards than the PC board will be initialized.<br>Press SW2002 to enter the process mode and execute S2 of the SSS menu.<br>All other than the PC board are initialized with S2.<br>Press SW2002 again to enter the process mode and execute S5 of the SSS menu.<br>Note: Since the PC I/F unit is initialized with S1, do not carry out S1.<br>The PC I/F unit is already adjusted.<br>When the PC I/F unit must be adjusted, in such case as S1 is carried out by mistake, adjust it according to the "PC I/F adjustment method" on the final page. |
| **2-1** | **A/D (RGB) G brightness checking** | 1. Select the following group and subject.<br>Group: A/D (RGB)<br>Subject: G-BRIGHT | 1. Press SW2002 to enter the process mode, and select the A/D (RGB) menu to read the value of G-BRIGHT.<br>2. Exit the A/D (RGB) menu by pressing the UNDO key on the remote control. |

| No. | Adjusting point | Adjusting conditions | Adjusting procedure |
|---|---|---|---|
| 2-2 | **A/D (COMP) G brightness adjustment CR offset checking CB offset checking** | 1. Input a white pattern color difference signal of Y (brightness) 0% and CB/CR 0%.<br>INPUT 5<br>2. Select the following group and subject.<br>Group: A/D (COMP)<br>Subject: G-BRIGHT<br>CR OFFSET<br>CB OFFSET | 1. Select the A/D (COMP) menu and set G-BRIGHT to the numeric value of G-BRIGHT of A/D (RGB).<br>2. Check that CB-OFFSET and CR-OFFSET are adjusted to 20.<br>3. Exit the A/D (COMP) menu by pressing the UNDO key on the remote control. |
| 3 | **Color wheel index adjustment** | 1. Feed the color wheel index adjustment pattern signal.<br>INPUT5<br>2. Select the following group and subject.<br>Group: DLP<br>Subject: CW INDEX | 1. Select CW-INDEX from the DLP menu.<br>2. Adjust the setting so that the R, G and B lamp tone pattern should be smooth without noises.<br>  |
| 4 | **White balance/ background adjustment** | Refer to "Background adjustment method" (page 31). | |
| 5 | **Video H center adjustment** | 1. Input an NTSC monoscope signal.<br>INPUT 4<br>2. Select the following group and subject.<br>Group: VIDEO1<br>Subject: NTSC-H | 1. Select NTSC-H from the VIDEO 1 menu.<br>2. Adjust so that the right and left overscan become the same. |
| 6 | **Video brightness/contrast adjustment** | 1. Input 100% window pattern of NTSC signal.<br>INPUT 4<br>2. Select the following group and subject.<br>Group: VIDEO1<br>Subject: AUTO | 1. After inputting the signal, select AUTO from the VIDEO 1 menu, and it is automatically adjusted by pressing the ENTER key on the remote control. |
| 7 | **Video TINT adjustment** | 1. Input split color bar signal.<br>INPUT 4<br>2. Select the following group and subject.<br>Group: VIDEO 1<br>Subject: TINT | 1. Select the VIDEO 1 menu to check the value of TINT.<br>Fixed value: 120 |

| No. | Adjusting point | Adjusting conditions | Adjusting procedure |
|---|---|---|---|
| 8 | **NTSC color saturation adjustment** | 1. Input split color bar signal. INPUT 4<br>2. Select the following group and subject.<br>Group: VIDEO1<br>Subject: N-COLOR | 1. Select the VIDEO 1 menu to check the value of N-COLOR.<br>Fixed value: 100 |
| 9 | **PAL color saturation adjustment** | 1. Input the PAL color bar. INPUT 4<br>2. Select the following group and subject.<br>Group: VIDEO1<br>Subject: P-COLOR | 1. Select the VIDEO 1 menu to check the value of P-COLOR.<br>Fixed value: 94 |
| 10 | **SECAM color saturation adjustment** | 1. Input the SECAM color bar. INPUT 4<br>2. Select the following group and subject.<br>Group: VIDEO1<br>Subject: S-COLOR | 1. Select the VIDEO 1 menu to check the value of S-COLOR.<br>Fixed value: 90 |
| 11 | **Check and readjustment of white balance** | 1. Use the adjustment conditions in the item 4. | Check that there is no deviation of the white balance. |
| 12 | **Color-related operation check** | 1. Input the color bar to INPUT4.<br>2. Select the following group and subject.<br>Group: LINE<br>Subject: L1 | 1.Select L1 of the process mode LINE and press the ENTER key on the remote control. Check the color density (Color) and tint (Tint). |
| 13 | **Video-related operation check** | 1. Input the monoscope to INPUT4.<br>2. Select the following group and subject.<br>Group: LINE<br>Subject: L2 | 1.Select L2 of the process mode LINE and press the ENTER key on the remote control. Check of Picture, Bright, and Sharpness. |
| 14 | **Operation check of RGB** | 1. Input the RGB signal to INPUT5.<br>2. Select the following group and subject.<br>Group: LINE<br>Subject: L4 | 1.Select L4 of the process mode LINE and press the ENTER key on the remote control. Check of Picture, Bright, Red, Blue, Clock, Phase, H-POS, V-POS. |

<table>
<tr><th>No.</th><th>Adjusting point</th><th>Adjusting conditions</th><th>Adjusting procedure</th></tr>
<tr><td>15</td><td>Off-timer performance check</td><td>1. Set to the no-signal state.<br>2. Select the following group and subject.<br>Group: LINE<br>Subject: OFF</td><td>1. Select OFF of LINE in the process mode and press the ENTER key on the remote control.<br>The 5-minute display of the off timer appears and check that the power is turned off about 6 seconds after the display appears.</td></tr>
<tr><td>16</td><td>Delivery settings</td><td>1. Select the following group and subject.<br>Group: SSS<br>Subject: S4<br>(North America)<br>S3 (Europe/<br>Asia/Australia)</td><td>1. Make the following settings.
<table>
<tr><th>Destination</th><th>Adjustment process</th><th>Remote control setting</th></tr>
<tr><td>North America</td><td>S4</td><td>Factory setting 4</td></tr>
<tr><td>Europe/Asia/<br>Australia</td><td>S3</td><td>Factory setting 3</td></tr>
</table></td></tr>
<tr><td>17</td><td>Auto sync performance check</td><td>1. Input the phase check pattern of the VGA/S-VGA/XGA signal to INPUT5.</td><td>1. Press the AUTO SYNC key on the remote control. Check that the clock, phase, H-POS, V-POS can be automatically adjusted.</td></tr>
<tr><td>18</td><td>Inspection of HTPC720P</td><td>To INPUT5 (DVI-I connector),<br>1. Input the color bar signal.<br>2. Input the gray scale signal.<br>3. Input the SMPTERP-133 signal.</td><td>Check that there is no abnormality with the screen.</td></tr>
<tr><td>19</td><td>Thermistor performance check</td><td>1. Heat the thermistor with a hair dryer.</td><td>1. Make sure that the temperature is indicated.</td></tr>
</table>

# Adjusting the PC Board

**1. Initializing the EEPROM**

1) Press SW2002 to enter the process mode.
2) Execute the S1 command on the SSS menu. (The S1 command initializes the PC board alone. Do not execute the S2 command because otherwise the adjustment data other than the PC board will be initialized.)

**2. Adjustment of input signal level**

2.1 Setting the oscilloscope

Set the oscilloscope range to DC 1V/div. and 5 É□sec/div

2.2 Connecting the PC interface

1) Connect the analog output (signal generator) and the DVI-I connector (INPUT 5 of the projector) with the cable (DSUB-DVI)
   Set the INPUT SELECT of the projector to INPUT 5 (select the analog RGB on the menu.)
2) Set the signal generator to the XGA mode (1024x768, 60 Hz, 32 tones). Adjust the output amplitude to 700 mVp-p between the black and white levels (terminated with a 75-ohm impedance).
3) Turn on the power.

2.3 Adjustment of A/D (RGB)

1) Press SW2002 and enter the process mode.
2) Select AD-AUTO from the A/D (RGB) menu.
3) Press the ENTER key on the remote control. The AUTO adjustment is performed.
4) Exit the A/D (RGB) menu by pressing the UNDO key on the remote control.

2.4 Adjustment of A/D (COMP)

1) Select the A/D (COMP) menu.
2) Set G-BRIGHT to the numeric value of G-BRIGHT of A/D (RGB).
3) Adjust CB-OFFSET to 20.
4) Adjust CR-OFFSET to 20.
5) Exit the A/D (COMP) menu by pressing the UNDO key on the remote control.

2.5 Adjustment of color wheel index

1) Input the pattern for adjusting the color wheel index to INPUT5.
   (Refer to "3. Color wheel index adjustment" in the "Adjustment method of each part" section.)
2) Select CW INDEX from the DLP menu.
3) Adjust so that the lamp gradation patterns of R, G and B become smooth without noise.
4) Exit the PLD menu by pressing the UNDO key on the remote control.

2.6 Select S5 from the SSS menu and press the ENTER key on the remote control.

Check that the OSD display of the set 5 appears.

# Background adjustment method

## I. Adjustment conditions

1) Adjustment item: Process mode, DLP menu
   GAMMA
   R-GAIN, G-GAIN, B-GAIN
2) Input signal: Component video 75% white signal
   ① With the component video 100% white signal, adjust the output to 0.7 ± 0.05 Vp-p (excluding the synchronous part.) (The sync signal is 0.3 Vp-p.)
   ② Next drop the image signal output to 75%.
   ③ Input the signal to INPUT5 (DVI-I connector).
3) Target adjustment chromaticity
   x = 0.290 ± 0.005
   y = 0.311 ± 0.005 (Color temperature: 8500K, +6UV)

## II. Adjustment procedures

1) Select GAMMA from the DLP menu and set the value to “6”. (Initial value = 6)
2) Set R-GAIN, G-GAIN, B-GAIN to “96”. (Initial value = 95)
3) Background adjustment
   ① Project on a 40-inch screen, and observe the chromaticity in the center with a color meter.
   ② Fix G-GAIN to 95.
   ③ Adjust the x and y values to the target adjustment chromaticity with B-GAIN. However, the adjusted value is up to 115 at maximum.
   ④ Adjust the x and y values to the target adjustment chromaticity with R-GAIN. However, the adjusted value is up to 115 at maximum.
   When the R-GAIN value is 115 and the x value cannot be adjusted,
   1) Lower the B-GAIN and adjust to x = 0.290.
   2) Lower the G-GAIN and adjust to y = 0.331.
   ⑤ Check that the middle gradation is not greatly deviated.
4) Exit the DLP menu by pressing the UNDO key on the remote control.

## Process menu 1

| Group | Sub Group | Subject |
|---|---|---|
| Adjust PC Image | A/D (RGB) | R-BRIGHT |
| | | G-BRIGHT |
| | | B-BRIGHT |
| | | R-D |
| | | B-D |
| | | G-D |
| | | AD-AUTO |
| | A/D (COMP) | G-BRIGHT |
| | | CB-OFFSET |
| | | CR-OFFSET |
| | | AD AUTO |
| Adjust HDDE formatter | DLP | CW-INDEX |
| | | DLP-GAMMA |
| | | R-BRIGHT |
| | | G-BRIGHT |
| | | B-BRIGHT |
| | | R-GAIN |
| | | G-GAIN |
| | | B-GAIN |
| Adjust VIDEO Image | VIDEO1 | NTSC-H |
| | | PICTURE |
| | | BRIGHT |
| | | TINT |
| | | N-COLOR |
| | | P-COLOR |
| | | S-COLOR |
| | | SET UP |
| | | SET UP B |
| | | SET UP C |
| | | VIDEO-AUTO |
| | VIDEO2 | PEAK FIL |
| | | PEAK GAIN |
| | | PEAK COR |
| | | N358 DLY |
| | | N433 DLY |
| | | PAL DLY |
| | | SECAM DLY |
| Process mode | LINE | L1 |
| | | L2 |
| | | L3 |
| | | L4 |
| | | OFF |
| | | TEMP OFF |
| | | SENSOR CHECK |

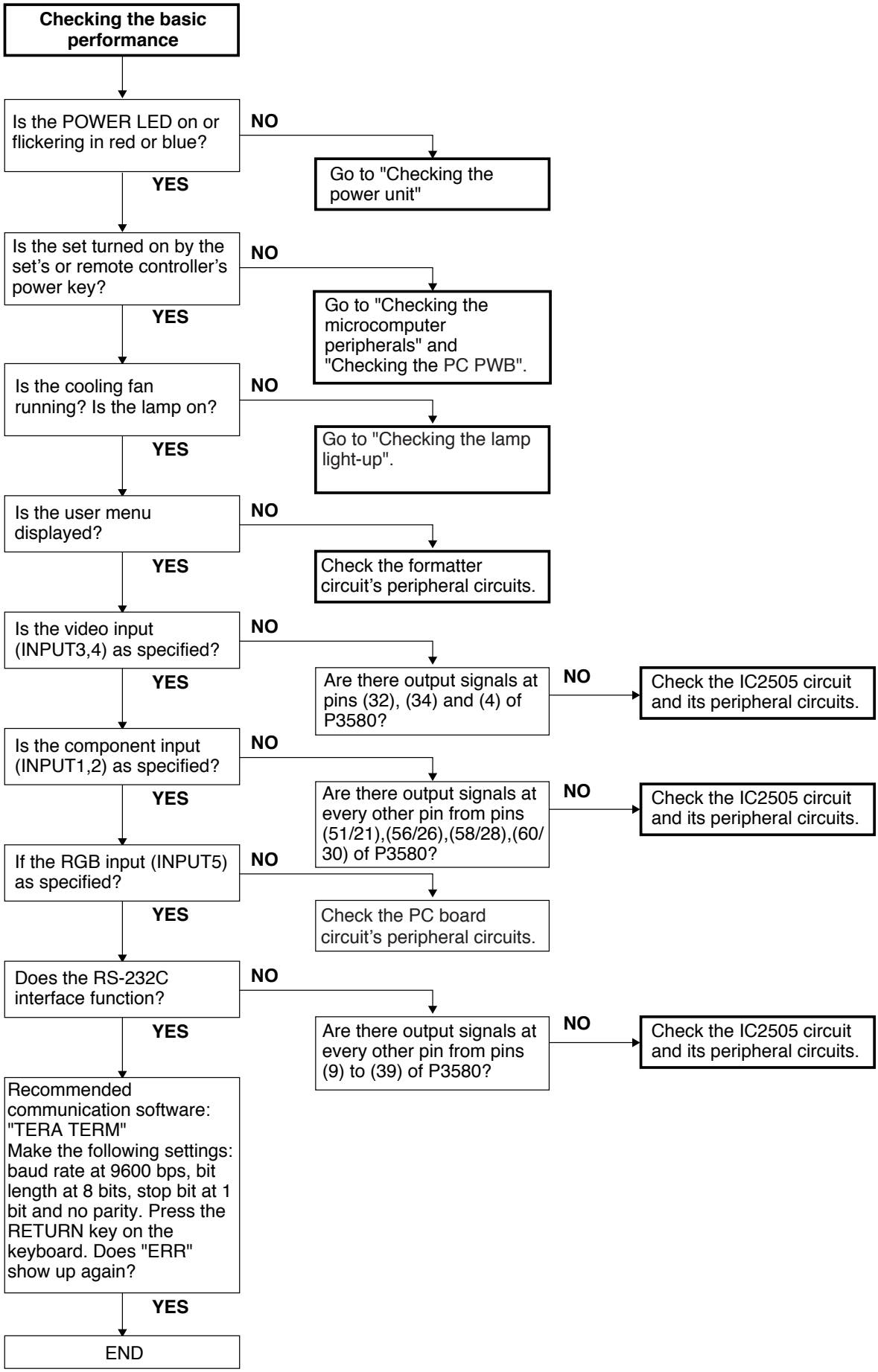
## Process menu 2

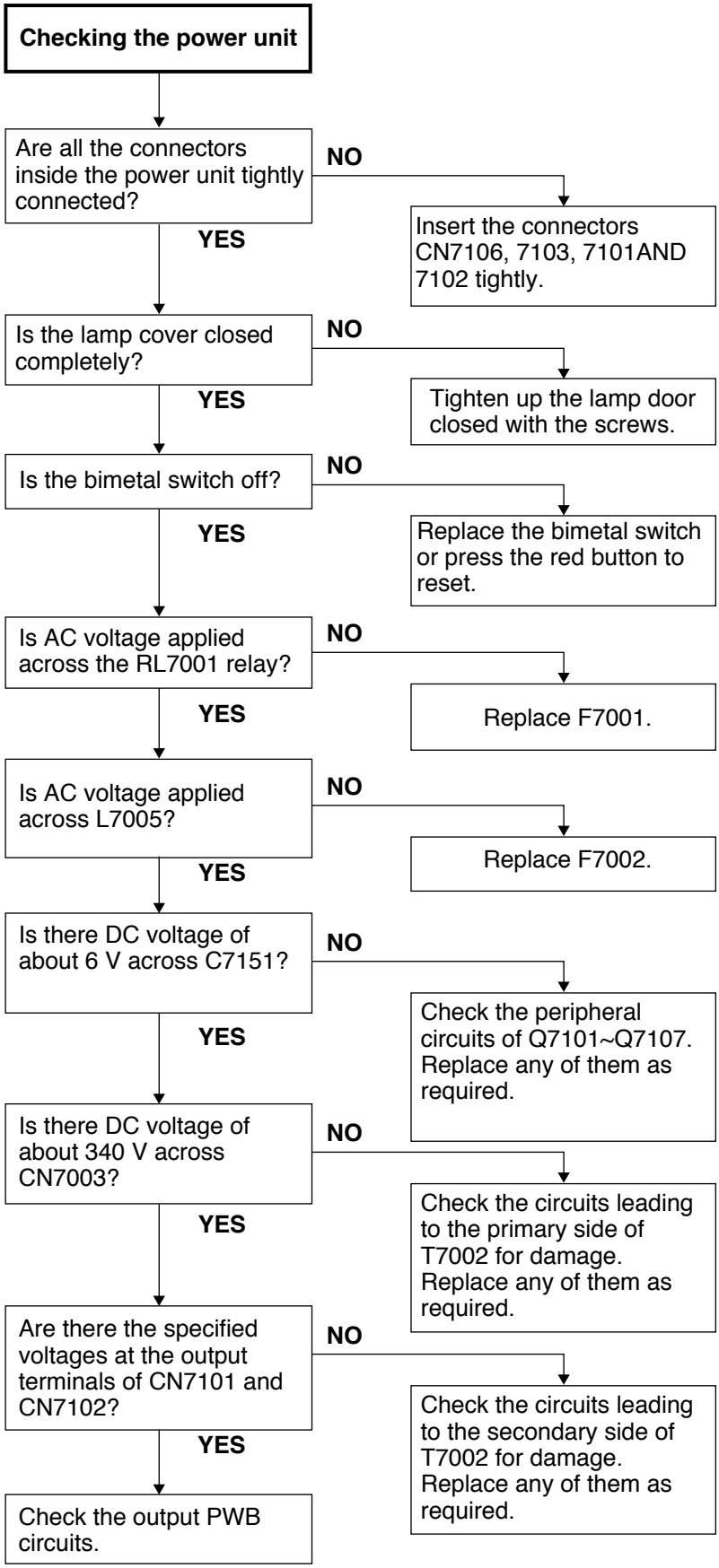
| Group | Sub Group | | Subject |
|---|---|---|---|
| INITIAL SETTING | SSS | | TIME |
| | | | S1 |
| | | | S2 |
| | | | S3 |
| | | | S4 |
| | | | S5 |
| | | | LAMP |
| Sample Pattern | PATTERN | | RGB |
| | | | RGB(50) |
| | | | CROSS |
| | | | STEP |
| | | | COLOR |
| | | | CHR |
| Adjust CVIC | CVIC | PROGRESSSIVE | MODE |
| | | | IP |
| | | | MDSW |
| | | | PTGSW |
| | | | C-TESTSW |
| | | | C-ILG-LY |
| | | | C-MODE-LY |
| | | | C-VE-LY |
| | | ENH-MODE(V) | TABLE |
| | | | ENH-PLUS |
| | | | ENH-GAIN |
| | | | CUBIC |
| | | ENH-MODE(PC) | TABLE |
| | | | ENH-PLUS |
| | | | ENH-GAIN |
| | | | CUBIC |
| | | NR | YNR-LEBEL |
| | | | YNR-K |
| | | | YNR-FSEL |
| | | | YNR-FILSW |
| | | | CNR-LEBEL |
| | | | CNR-K |
| | | | CNR-FSEL |
| | | | CNR-FILSW |
| | | PTG | TBL-ON |
| | | | TESTSW |
| | | | ENABLE |
| | | | MV-F |
| | | | VDDYP |

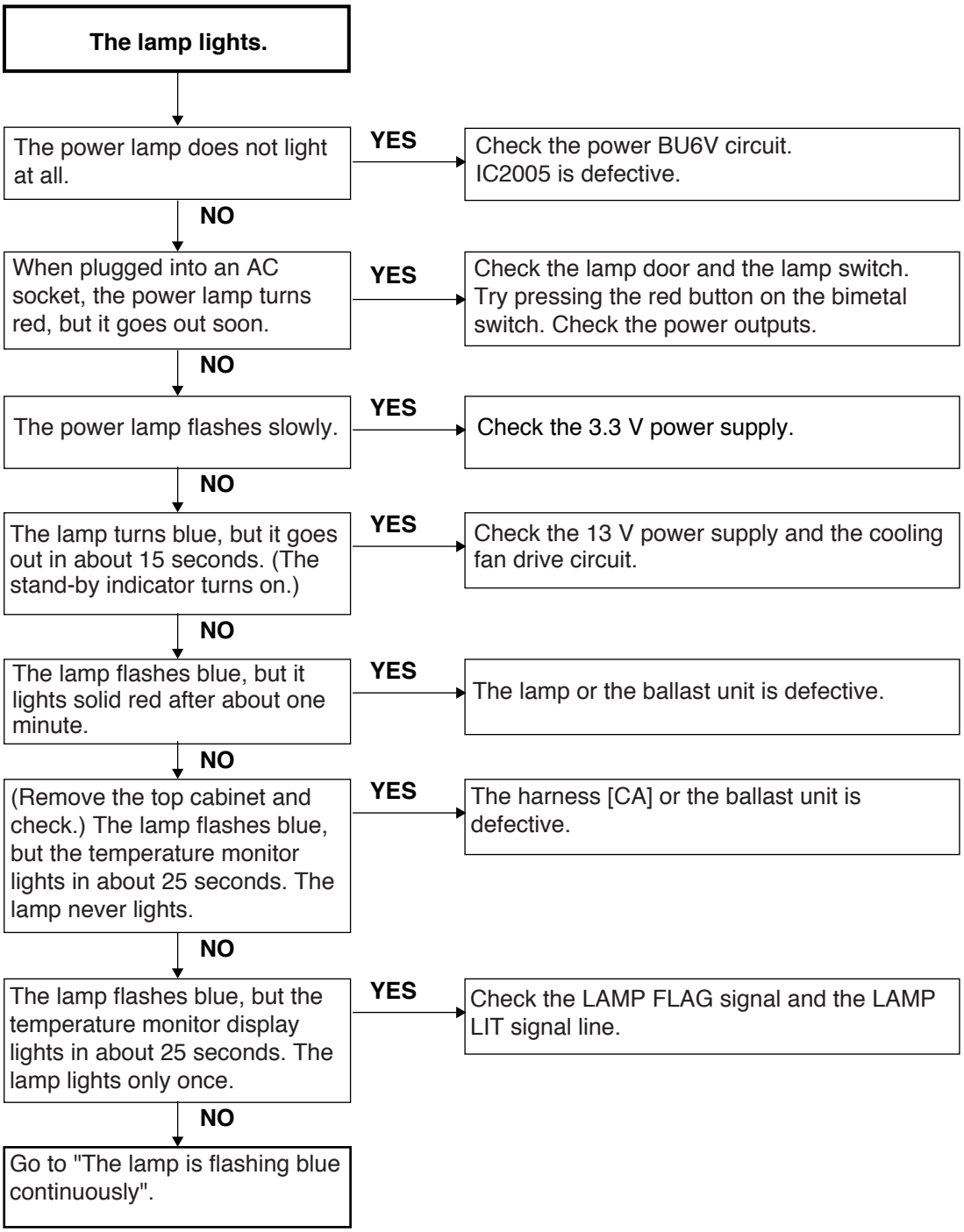
## Process menu 3

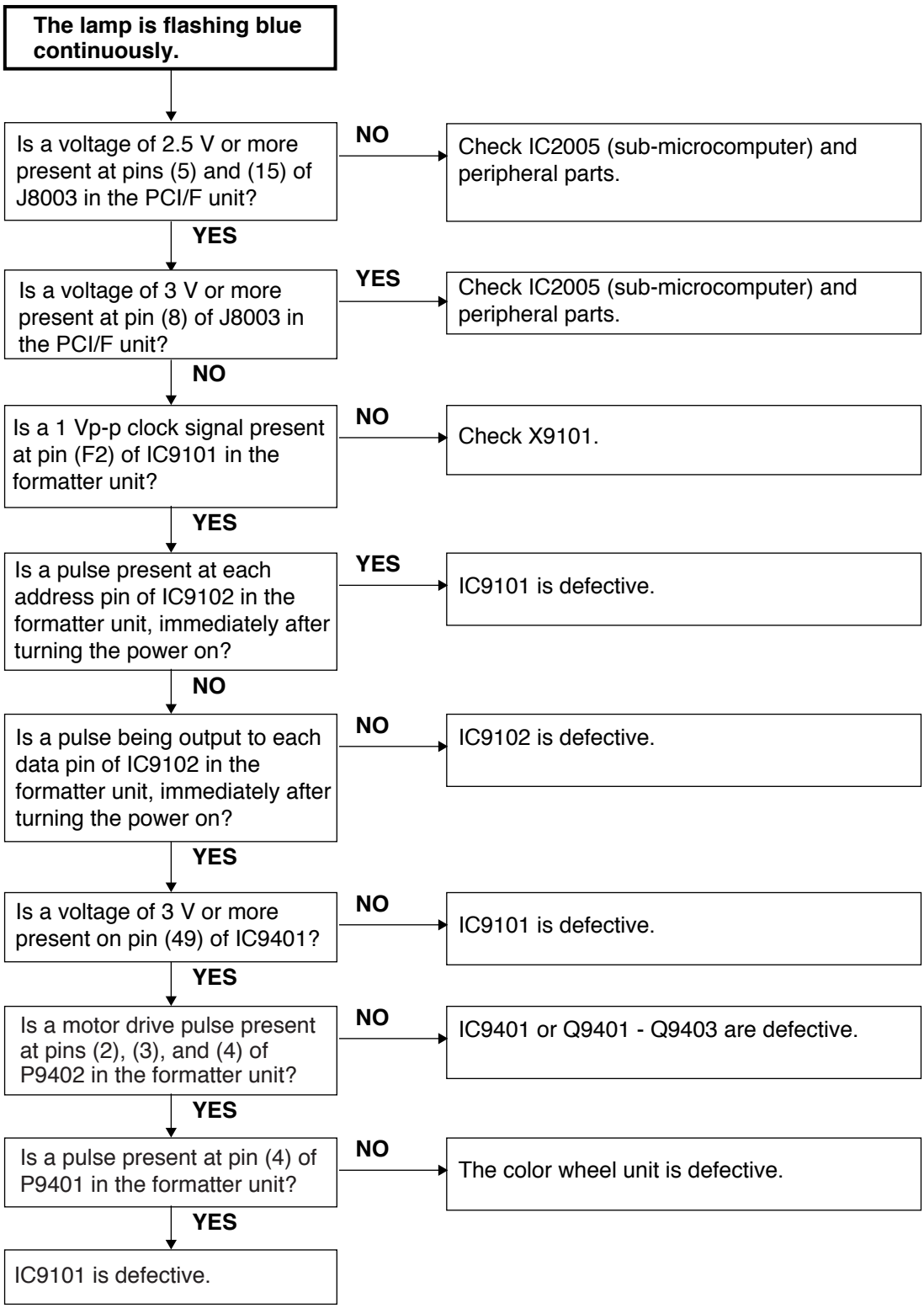
| Group | Sub Group | | Subject |
|---|---|---|---|
| Adjust CVIC | CVIC | CMS-HUE | TABLE |
| | | | CMS-HUE-R |
| | | | CMS-HUE-Y |
| | | | CMS-HUE-G |
| | | | CMS-HUE-C |
| | | | CMS-HUE-B |
| | | | CMS-HUE-M |
| | | CMS-SAT | TABLE |
| | | | CMS-SAT-R |
| | | | CMS-SAT-Y |
| | | | CMS-SAT-G |
| | | | CMS-SAT-C |
| | | | CMS-SAT-B |
| | | | CMS-SAT-M |
| | | CMS-VAL | TABLE |
| | | | CMS-VAL-R |
| | | | CMS-VAL-Y |
| | | | CMS-VAL-G |
| | | | CMS-VAL-C |
| | | | CMS-VAL-B |
| | | | CMS-VAL-M |
| | | DEGAMMA | TABLE |
| | | GAMMA POS | R GAMMA |
| | | | G GAMMA |
| | | | B GAMMA |
| | | | R GAIN |
| | | | G GAIN |
| | | | B GAIN |
| | | | R OFFSET |
| | | | G OFFSET |
| | | | B OFFSET |
| Version Check etc. | | SPECIAL | IPL |
| | | | E2PROM |
| | | | ADR RD/WR |

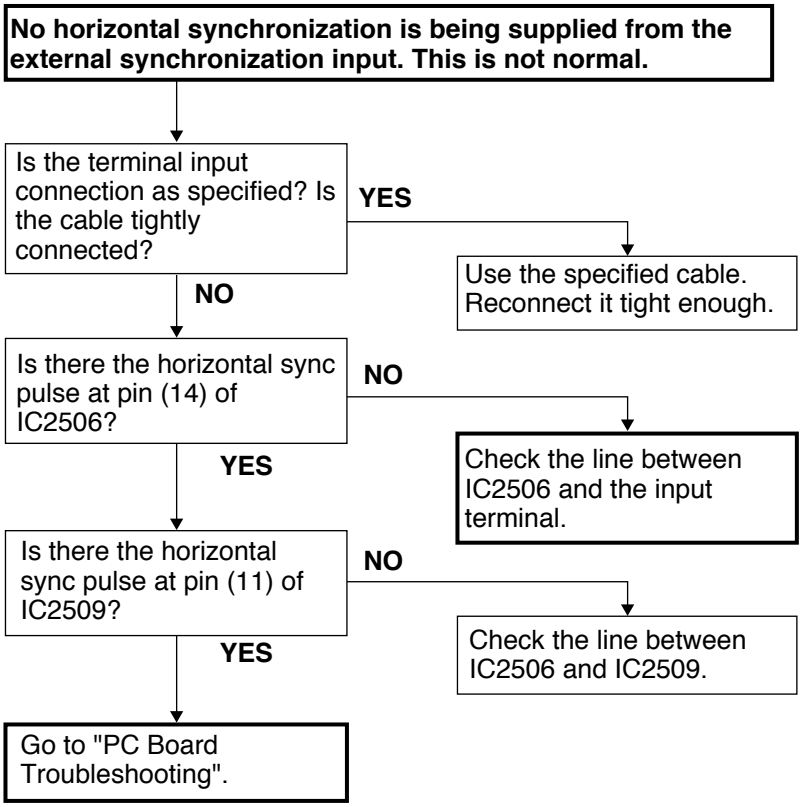
# TROUBLE SHOOTING TABLE

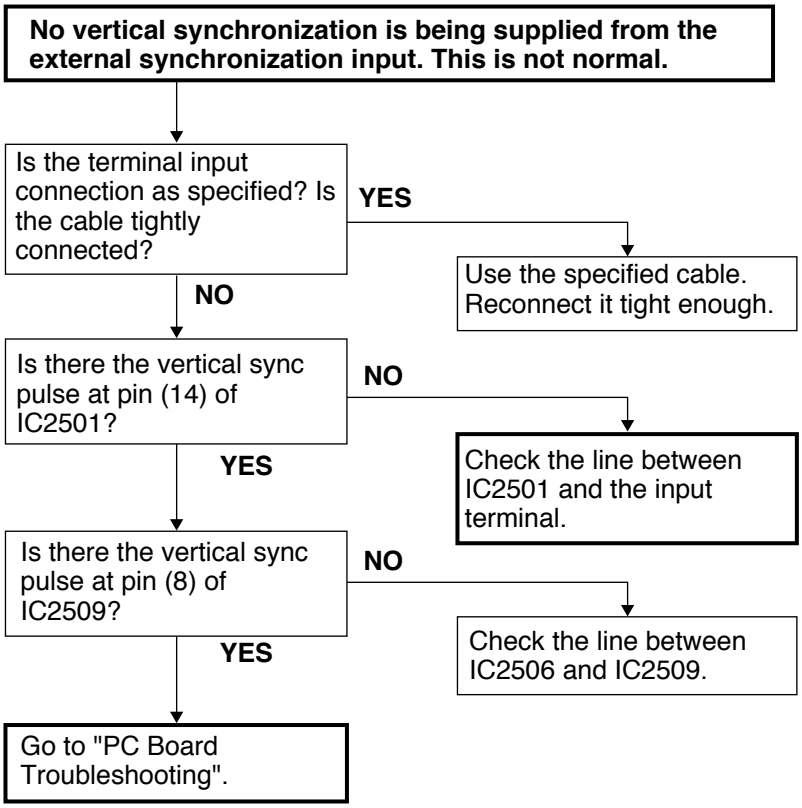

Checking the basic performance
Is the POWER LED on or flickering in red or blue?
NO
Go to "Checking the power unit"
YES
Is the set turned on by the set's or remote controller's power key?
NO
Go to "Checking the microcomputer peripherals" and "Checking the PC PWB".
YES
Is the cooling fan running? Is the lamp on?
NO
Go to "Checking the lamp light-up".
YES
Is the user menu displayed?
NO
Check the formatter circuit's peripheral circuits.
YES
Is the video input (INPUT3,4) as specified?
NO
Are there output signals at pins (32), (34) and (4) of P3580?
NO
Check the IC2505 circuit and its peripheral circuits.
YES
Is the component input (INPUT1,2) as specified?
NO
Are there output signals at every other pin from pins (51/21),(56/26),(58/28),(60/30) of P3580?
NO
Check the IC2505 circuit and its peripheral circuits.
YES
If the RGB input (INPUT5) as specified?
NO
Check the PC board circuit's peripheral circuits.
YES
Does the RS-232C interface function?
NO
Are there output signals at every other pin from pins (9) to (39) of P3580?
NO
Check the IC2505 circuit and its peripheral circuits.
YES
Recommended communication software: "TERA TERM"
Make the following settings: baud rate at 9600 bps, bit length at 8 bits, stop bit at 1 bit and no parity. Press the RETURN key on the keyboard. Does "ERR" show up again?
YES
END


Checking the power unit
Are all the connectors inside the power unit tightly connected?
NO
Insert the connectors CN7106, 7103, 7101AND 7102 tightly.
YES
Is the lamp cover closed completely?
NO
Tighten up the lamp door closed with the screws.
YES
Is the bimetal switch off?
NO
Replace the bimetal switch or press the red button to reset.
YES
Is AC voltage applied across the RL7001 relay?
NO
Replace F7001.
YES
Is AC voltage applied across L7005?
NO
Replace F7002.
YES
Is there DC voltage of about 6 V across C7151?
NO
Check the peripheral circuits of Q7101~Q7107. Replace any of them as required.
YES
Is there DC voltage of about 340 V across CN7003?
NO
Check the circuits leading to the primary side of T7002 for damage. Replace any of them as required.
YES
Are there the specified voltages at the output terminals of CN7101 and CN7102?
NO
Check the circuits leading to the secondary side of T7002 for damage. Replace any of them as required.
YES
Check the output PWB circuits.


The lamp lights.
The power lamp does not light at all.
YES
Check the power BU6V circuit.
IC2005 is defective.
NO
When plugged into an AC socket, the power lamp turns red, but it goes out soon.
YES
Check the lamp door and the lamp switch.
Try pressing the red button on the bimetal switch. Check the power outputs.
NO
The power lamp flashes slowly.
YES
Check the 3.3 V power supply.
NO
The lamp turns blue, but it goes out in about 15 seconds. (The stand-by indicator turns on.)
YES
Check the 13 V power supply and the cooling fan drive circuit.
NO
The lamp flashes blue, but it lights solid red after about one minute.
YES
The lamp or the ballast unit is defective.
NO
(Remove the top cabinet and check.) The lamp flashes blue, but the temperature monitor lights in about 25 seconds. The lamp never lights.
YES
The harness [CA] or the ballast unit is defective.
NO
The lamp flashes blue, but the temperature monitor display lights in about 25 seconds. The lamp lights only once.
YES
Check the LAMP FLAG signal and the LAMP LIT signal line.
NO
Go to "The lamp is flashing blue continuously".


The lamp is flashing blue continuously.
Is a voltage of 2.5 V or more present at pins (5) and (15) of J8003 in the PCI/F unit?
NO
Check IC2005 (sub-microcomputer) and peripheral parts.
YES
Is a voltage of 3 V or more present at pin (8) of J8003 in the PCI/F unit?
YES
Check IC2005 (sub-microcomputer) and peripheral parts.
NO
Is a 1 Vp-p clock signal present at pin (F2) of IC9101 in the formatter unit?
NO
Check X9101.
YES
Is a pulse present at each address pin of IC9102 in the formatter unit, immediately after turning the power on?
YES
IC9101 is defective.
NO
Is a pulse being output to each data pin of IC9102 in the formatter unit, immediately after turning the power on?
NO
IC9102 is defective.
YES
Is a voltage of 3 V or more present on pin (49) of IC9401?
NO
IC9101 is defective.
YES
Is a motor drive pulse present at pins (2), (3), and (4) of P9402 in the formatter unit?
NO
IC9401 or Q9401 - Q9403 are defective.
YES
Is a pulse present at pin (4) of P9401 in the formatter unit?
NO
The color wheel unit is defective.
YES
IC9101 is defective.


No horizontal synchronization is being supplied from the external synchronization input. This is not normal.
Is the terminal input connection as specified? Is the cable tightly connected?
YES
Use the specified cable. Reconnect it tight enough.
NO
Is there the horizontal sync pulse at pin (14) of IC2506?
NO
Check the line between IC2506 and the input terminal.
YES
Is there the horizontal sync pulse at pin (11) of IC2509?
NO
Check the line between IC2506 and IC2509.
YES
Go to "PC Board Troubleshooting".


No vertical synchronization is being supplied from the external synchronization input. This is not normal.
Is the terminal input connection as specified? Is the cable tightly connected?
YES
Use the specified cable. Reconnect it tight enough.
NO
Is there the vertical sync pulse at pin (14) of IC2501?
NO
Check the line between IC2501 and the input terminal.
YES
Is there the vertical sync pulse at pin (8) of IC2509?
NO
Check the line between IC2506 and IC2509.
YES
Go to "PC Board Troubleshooting".

**Checking IC3504 (3D Noise Reduction) and its Peripheral Circuits**

Are there the input signals at pins (88) (Y signal) and (96) (C signal) of IC3504?

**NO**

Check the signal input circuit or IC2505 and its peripheral circuits.

**YES**

Are there the output signals at pins (84) (Y signal) and (83) (C signal) of IC3504?

**NO**

Check IC3504 and its peripheral circuits.

**YES**

Check the line up to the PC board connector or the circuits that follow the PC board.

**Checking the Component and RGB Inputs**

Are there signals at pins (34), (36) and (38) of IC2505?

**NO**

Check the signal input circuit or IC2505 and its peripheral circuits.

**YES**

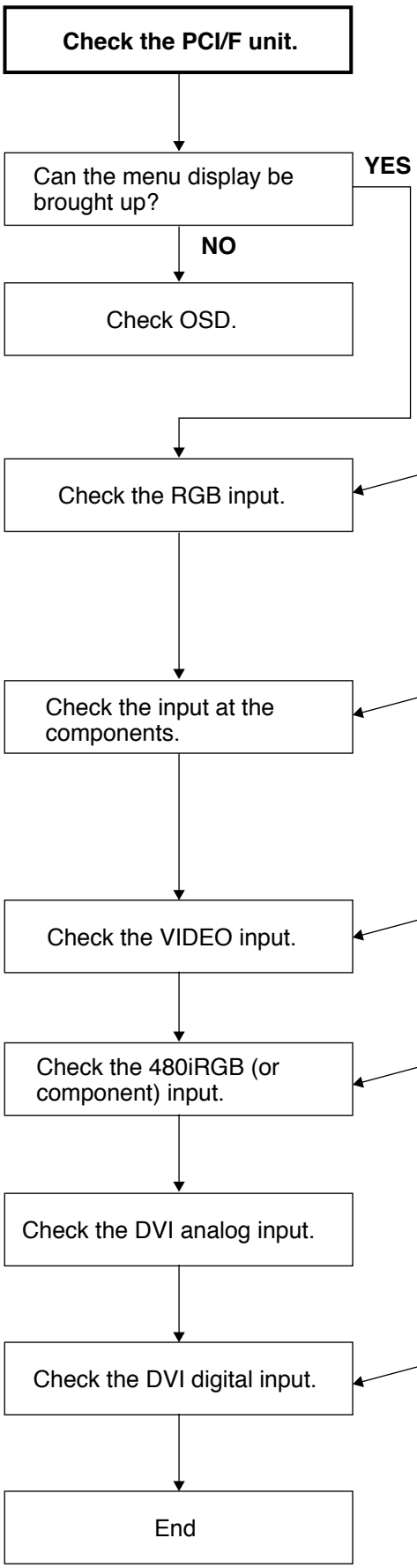
Are there signals at pins (60/30),(58/28),(56/26) and (51/21) on the board-to-board section of P3580?

**NO**

Check the line from Q2518 through Q2520 to Q2523 and its peripheral circuits.

**YES**

Check the board-to-board connections or the circuits that follow the PC board.



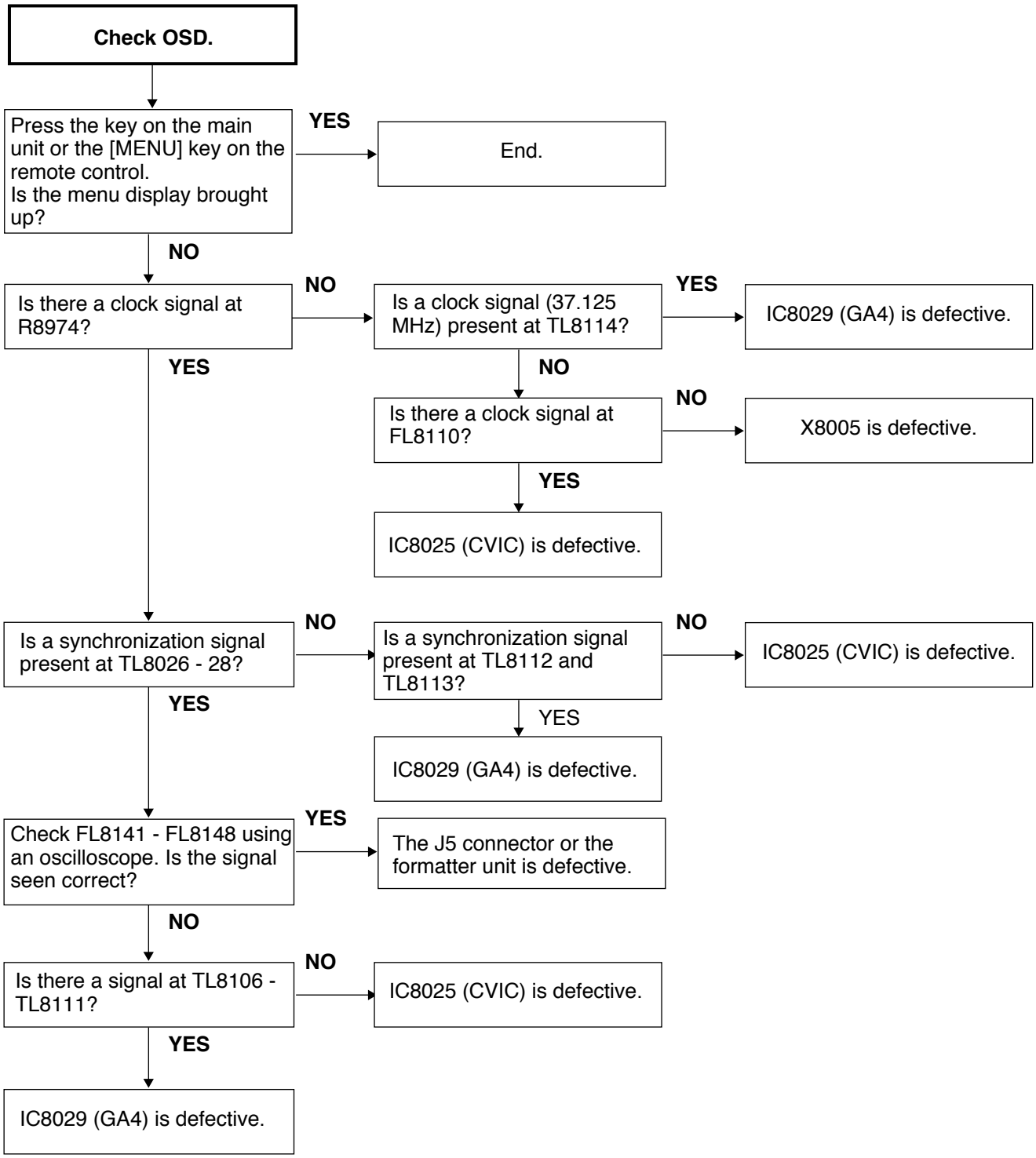

Check the basic flow of the signals.
Since the component and VIDEO signals follow the same path to the output as the formatter unit uses, after CVIC (IC8025), the check that would otherwise be performed after the CVIC does not need to be performed.
(480i and 576i are excluded.)

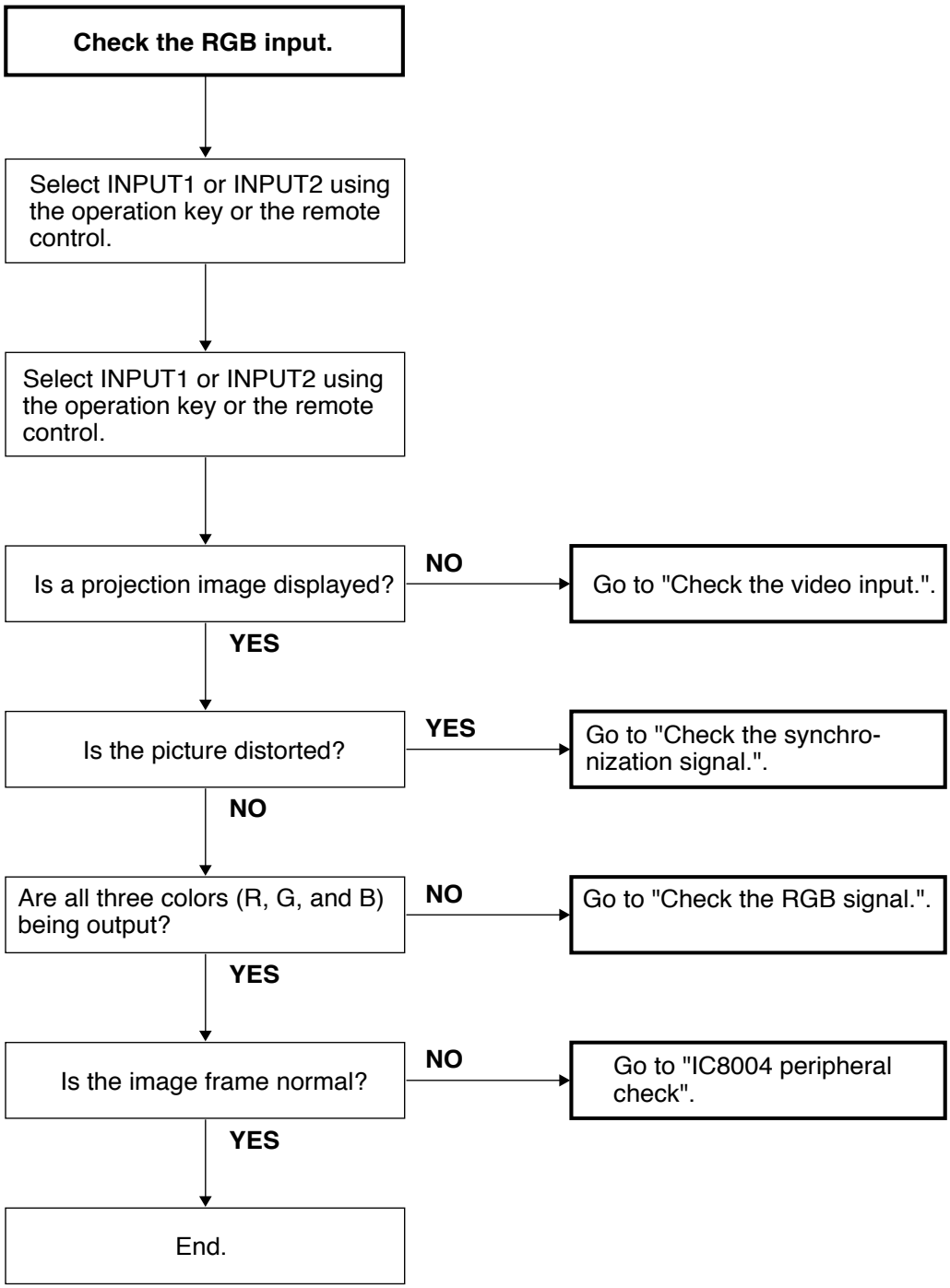
The signal passes through the same circuit as the RGB input.
Mainly, check the SOG (Sync On Green) circuit and the color adjustment circuit.
(480i and 576i are excluded.)

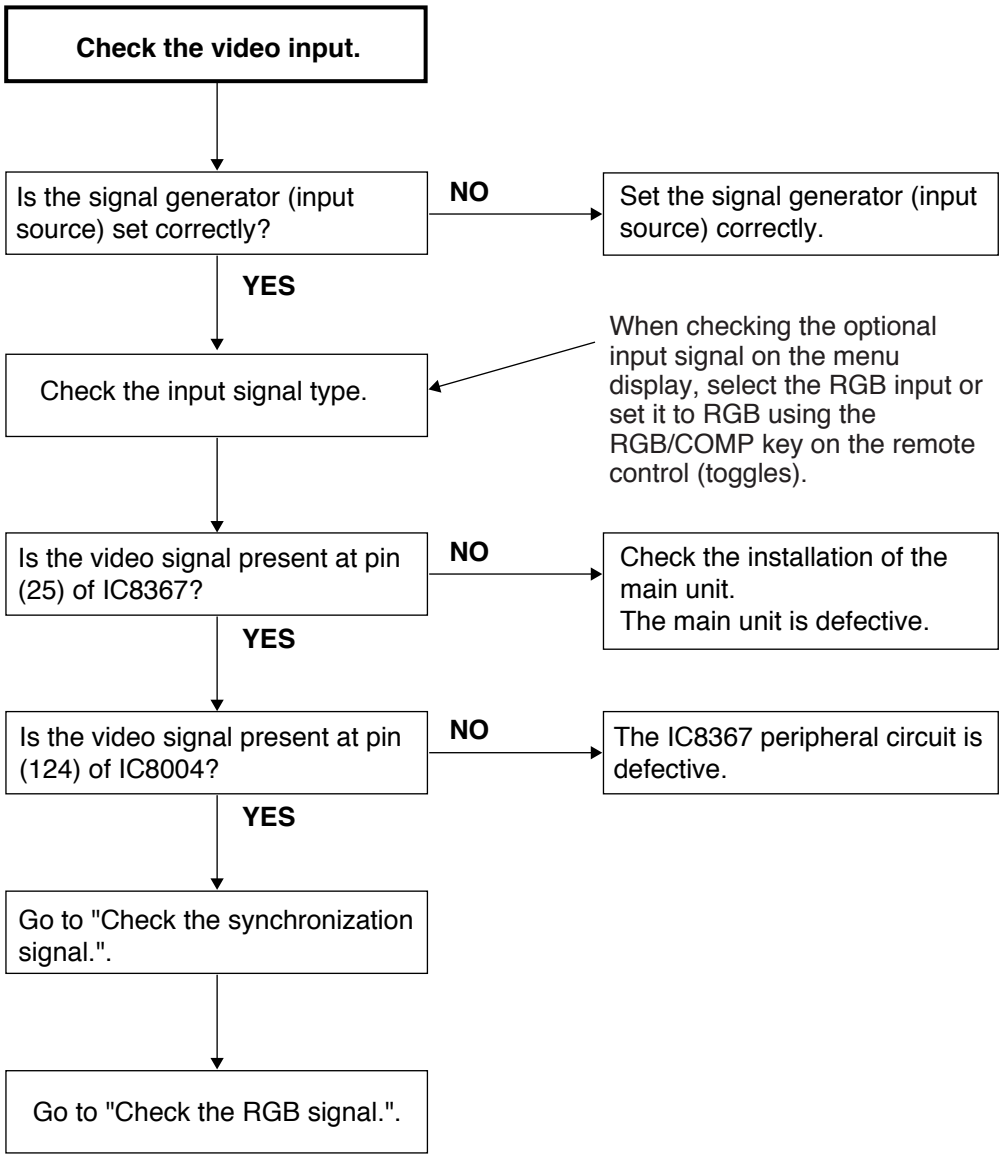
Since the VIDEO input enters CVIC through a different route than the RGB input, check the VIDEO IC.
(480i and 576i are excluded.)

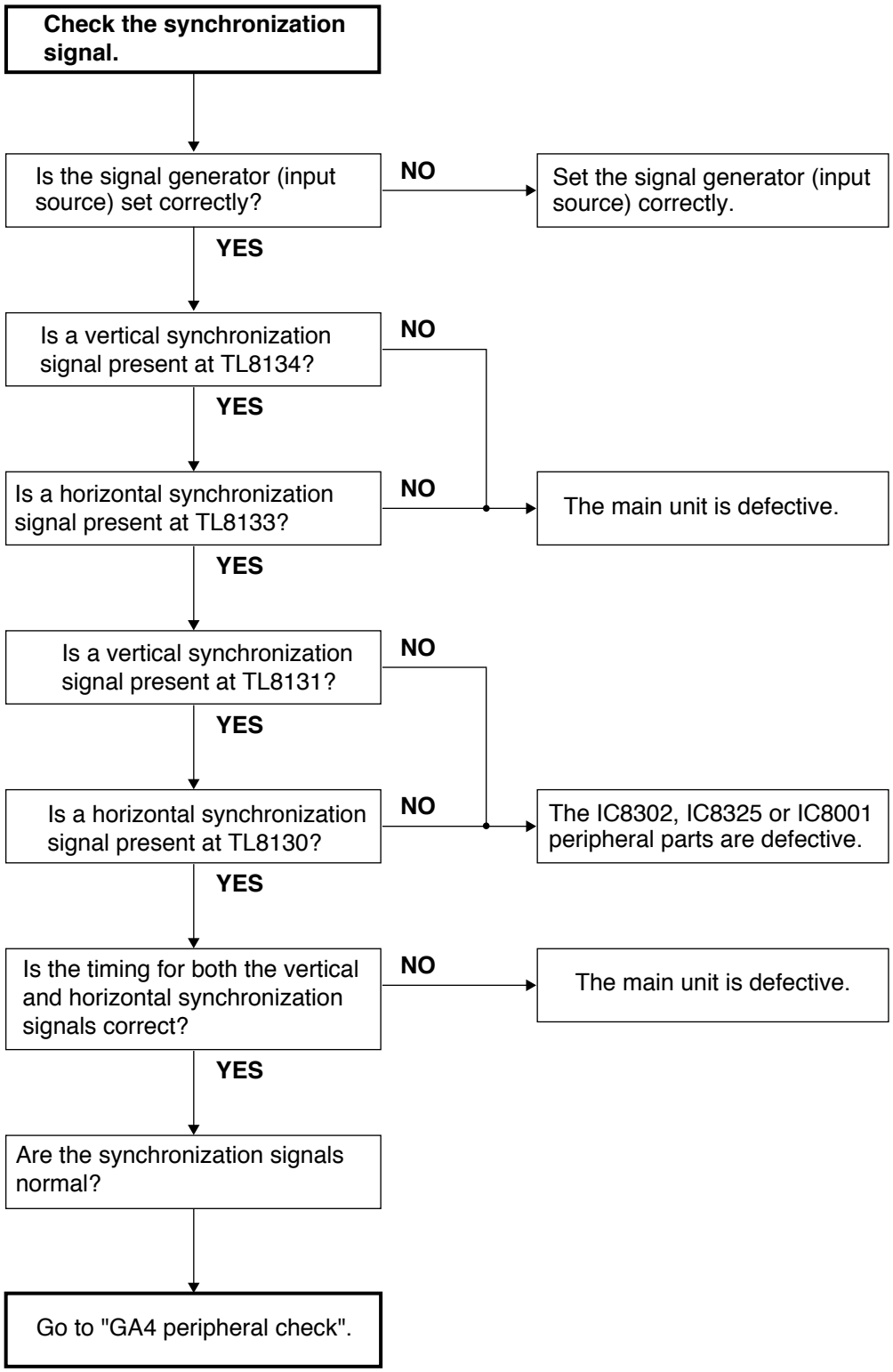
The video signal and the color signal pass through the same circuits as the RGB input. However, since the synchronization signal uses the VIDEO IC, check the synchronization signal path.

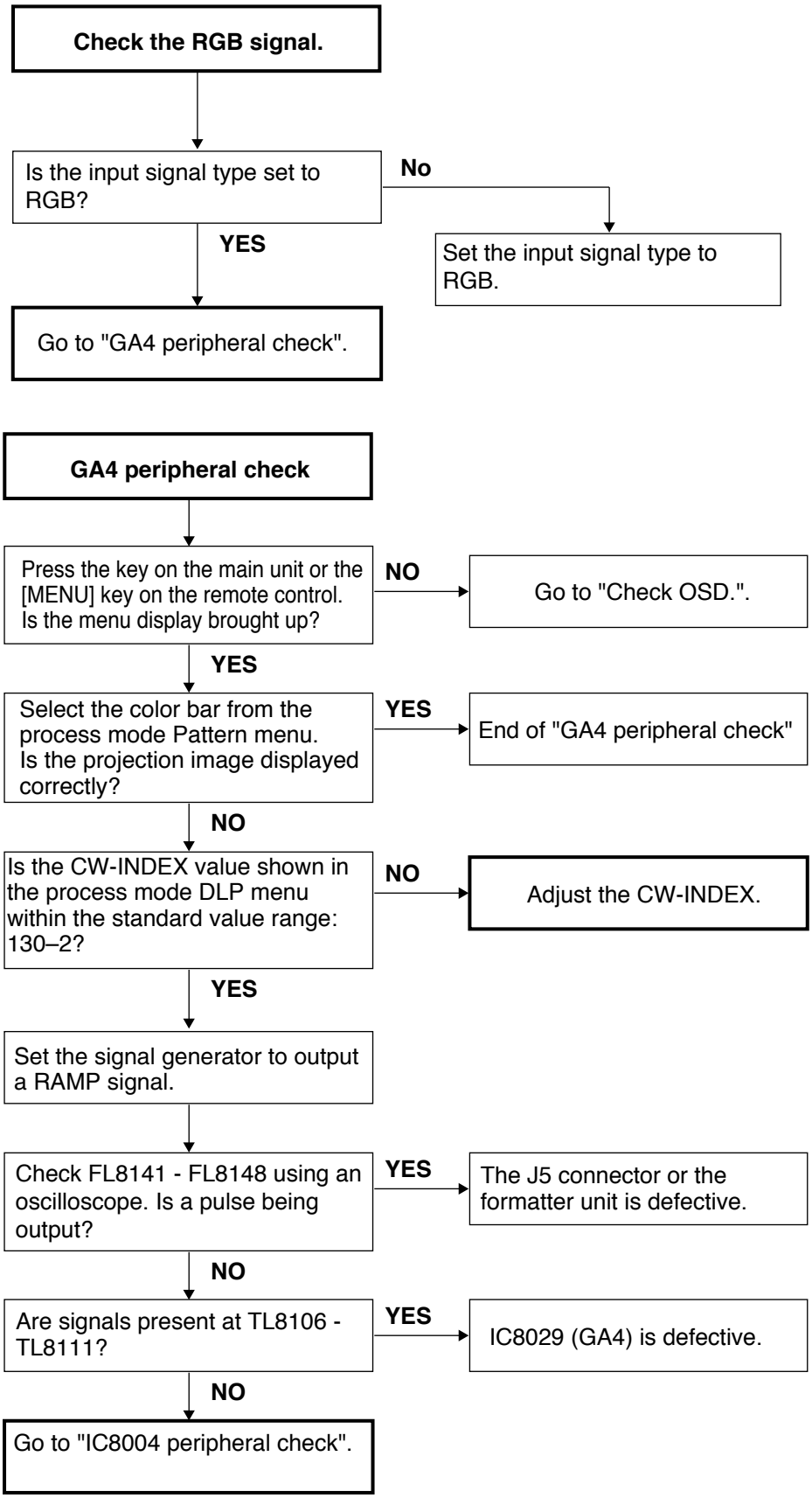
The signal is reproduced in an IC specially designed for use with the Panel Link, and it enters the CVIC.

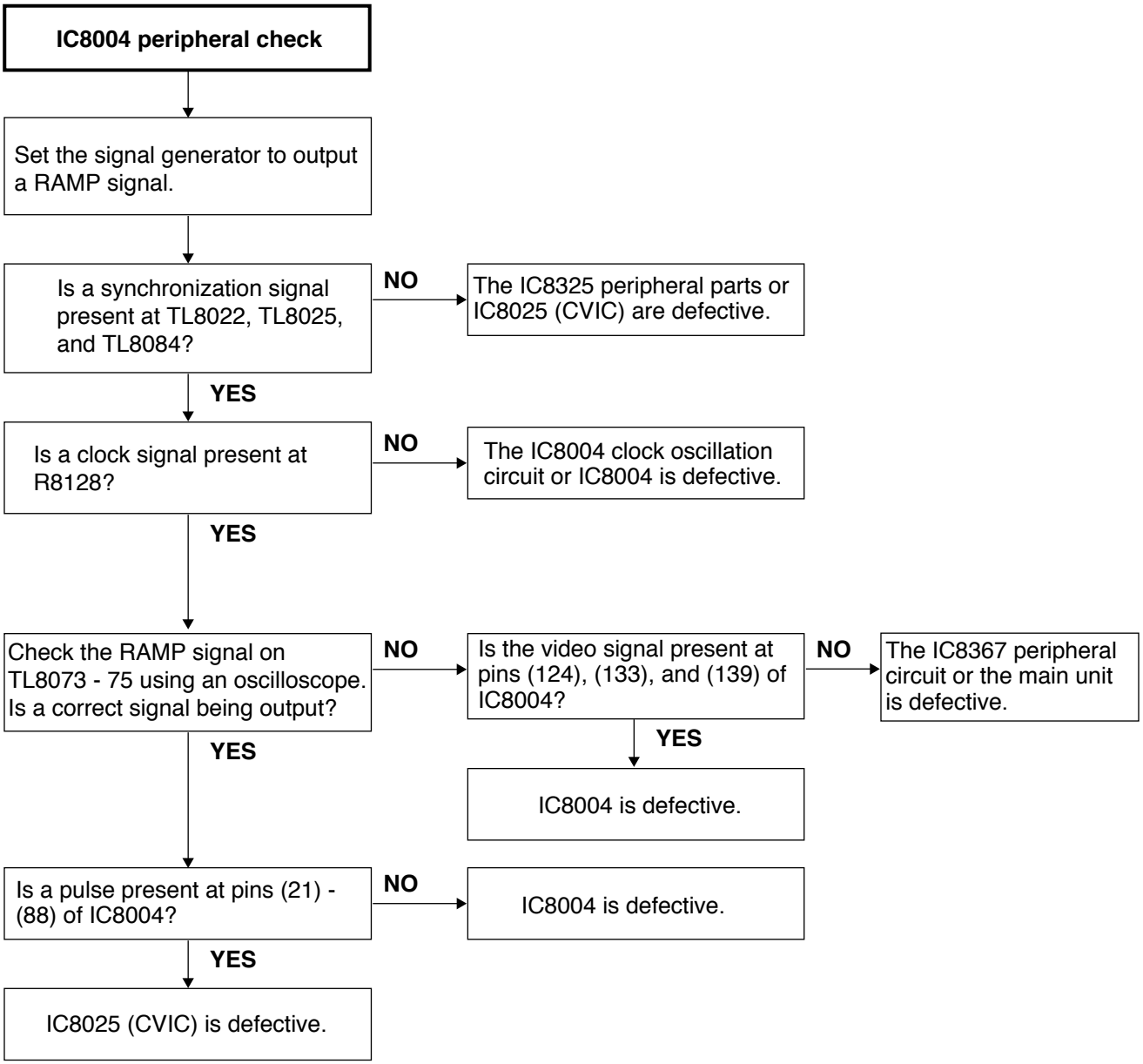

Check OSD.
Press the key on the main unit or the [MENU] key on the remote control.
Is the menu display brought up?
YES
End.
NO
Is there a clock signal at R8974?
NO
Is a clock signal (37.125 MHz) present at TL8114?
YES
IC8029 (GA4) is defective.
YES
NO
Is there a clock signal at FL8110?
NO
X8005 is defective.
YES
IC8025 (CVIC) is defective.
Is a synchronization signal present at TL8026 - 28?
NO
Is a synchronization signal present at TL8112 and TL8113?
NO
IC8025 (CVIC) is defective.
YES
YES
IC8029 (GA4) is defective.
Check FL8141 - FL8148 using an oscilloscope. Is the signal seen correct?
YES
The J5 connector or the formatter unit is defective.
NO
Is there a signal at TL8106 - TL8111?
NO
IC8025 (CVIC) is defective.
YES
IC8029 (GA4) is defective.

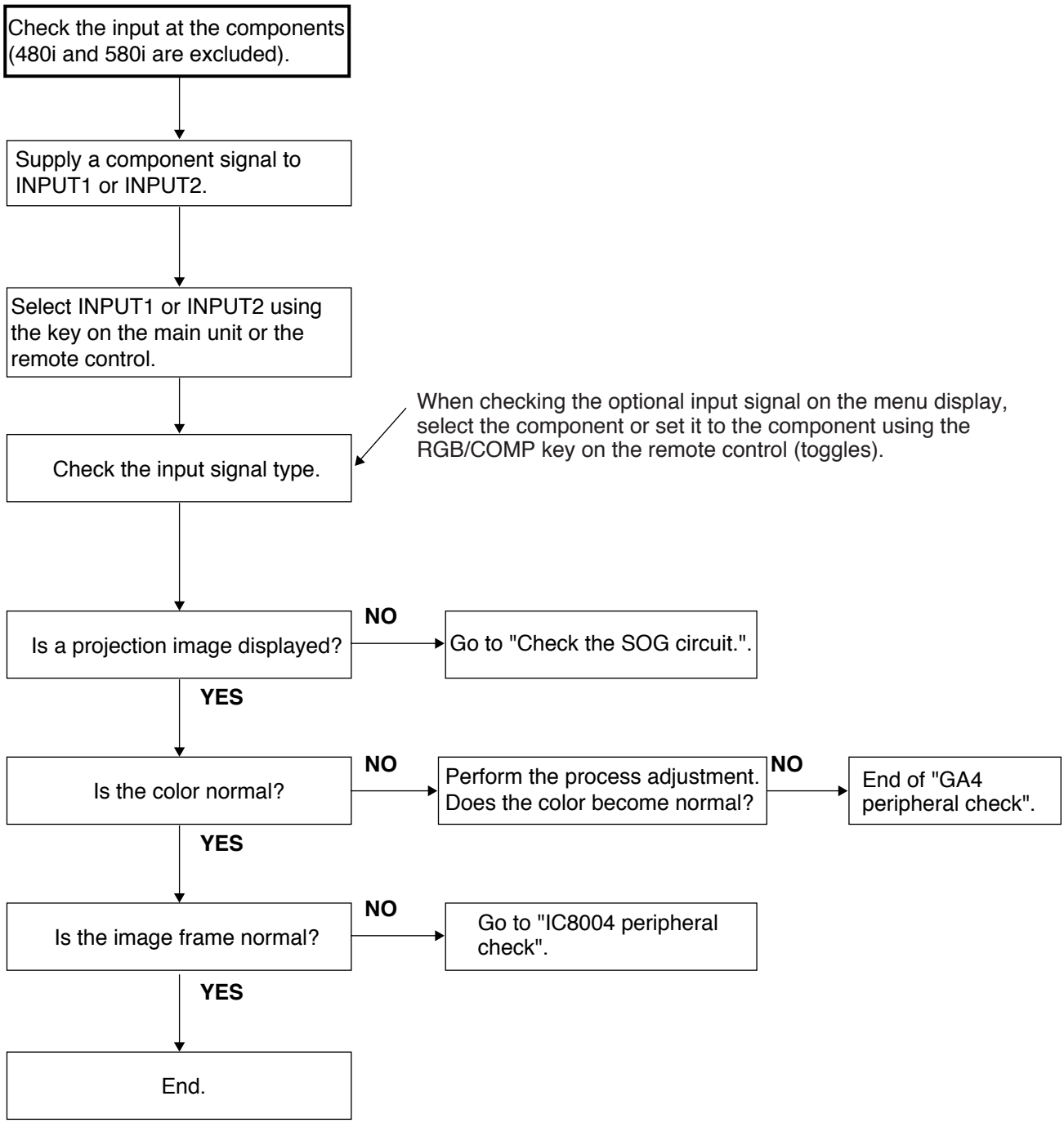

Check the RGB input.
Select INPUT1 or INPUT2 using the operation key or the remote control.
Select INPUT1 or INPUT2 using the operation key or the remote control.
Is a projection image displayed?
NO
Go to "Check the video input.".
YES
Is the picture distorted?
YES
Go to "Check the synchronization signal.".
NO
Are all three colors (R, G, and B) being output?
NO
Go to "Check the RGB signal.".
YES
Is the image frame normal?
NO
Go to "IC8004 peripheral check".
YES
End.

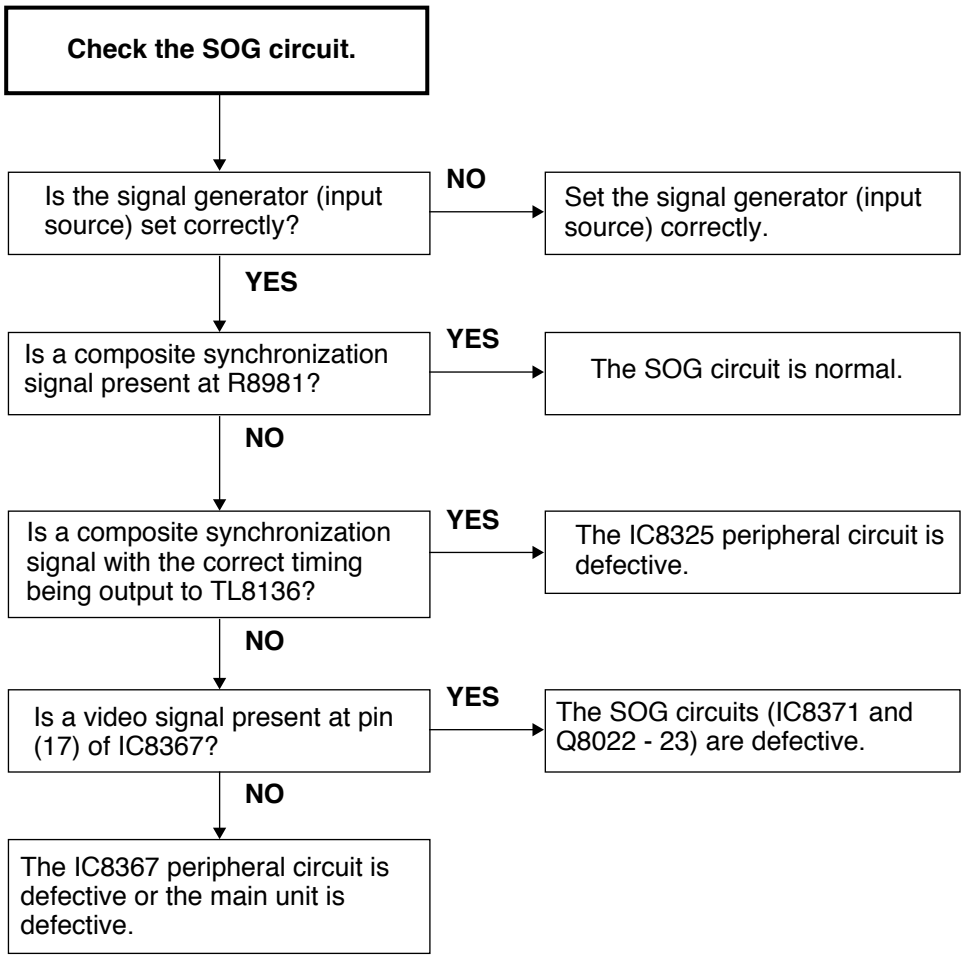

Check the video input.
Is the signal generator (input source) set correctly?
NO
Set the signal generator (input source) correctly.
YES
When checking the optional input signal on the menu display, select the RGB input or set it to RGB using the RGB/COMP key on the remote control (toggles).
Check the input signal type.
Is the video signal present at pin (25) of IC8367?
NO
Check the installation of the main unit.
The main unit is defective.
YES
Is the video signal present at pin (124) of IC8004?
NO
The IC8367 peripheral circuit is defective.
YES
Go to "Check the synchronization signal.".
Go to "Check the RGB signal.".

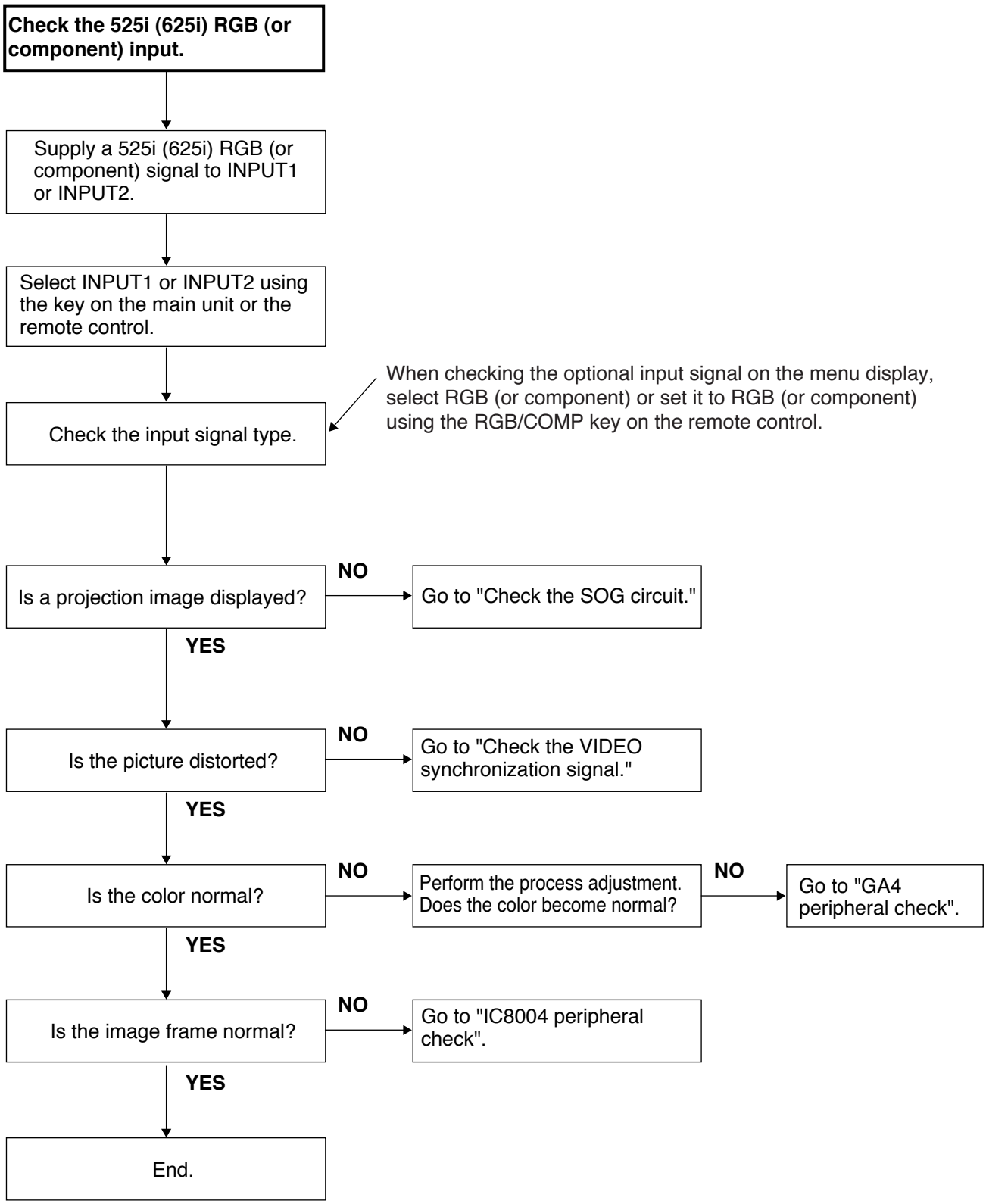

Check the synchronization signal.
Is the signal generator (input source) set correctly?
NO
Set the signal generator (input source) correctly.
YES
Is a vertical synchronization signal present at TL8134?
NO
YES
Is a horizontal synchronization signal present at TL8133?
NO
The main unit is defective.
YES
Is a vertical synchronization signal present at TL8131?
NO
YES
Is a horizontal synchronization signal present at TL8130?
NO
The IC8302, IC8325 or IC8001 peripheral parts are defective.
YES
Is the timing for both the vertical and horizontal synchronization signals correct?
NO
The main unit is defective.
YES
Are the synchronization signals normal?
Go to "GA4 peripheral check".

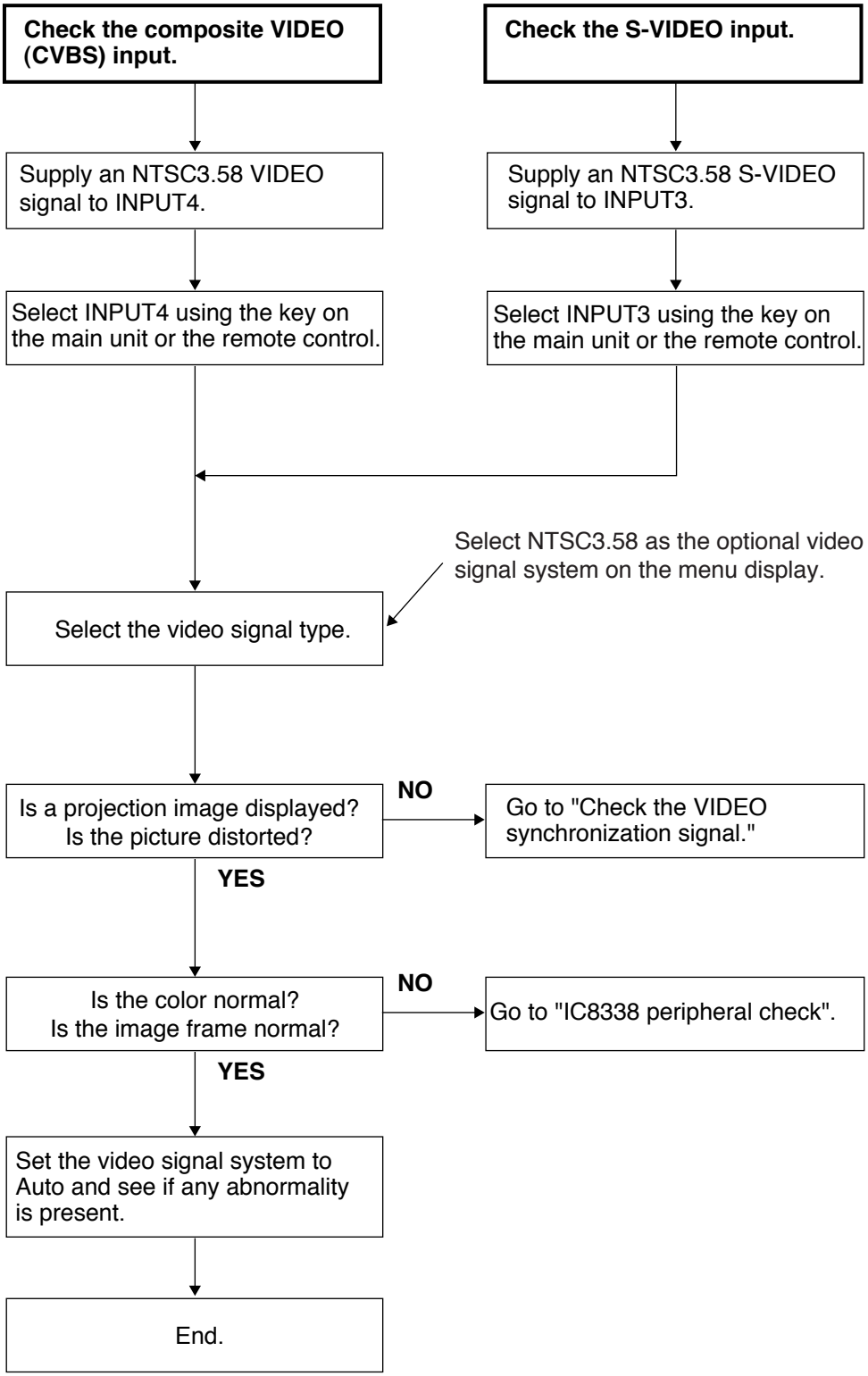

Check the RGB signal.
Is the input signal type set to RGB?
No
YES
Set the input signal type to RGB.
Go to "GA4 peripheral check".
GA4 peripheral check
Press the key on the main unit or the [MENU] key on the remote control. Is the menu display brought up?
NO
Go to "Check OSD.".
YES
Select the color bar from the process mode Pattern menu. Is the projection image displayed correctly?
YES
End of "GA4 peripheral check"
NO
Is the CW-INDEX value shown in the process mode DLP menu within the standard value range: 130–2?
NO
Adjust the CW-INDEX.
YES
Set the signal generator to output a RAMP signal.
Check FL8141 - FL8148 using an oscilloscope. Is a pulse being output?
YES
The J5 connector or the formatter unit is defective.
NO
Are signals present at TL8106 - TL8111?
YES
IC8029 (GA4) is defective.
NO
Go to "IC8004 peripheral check".

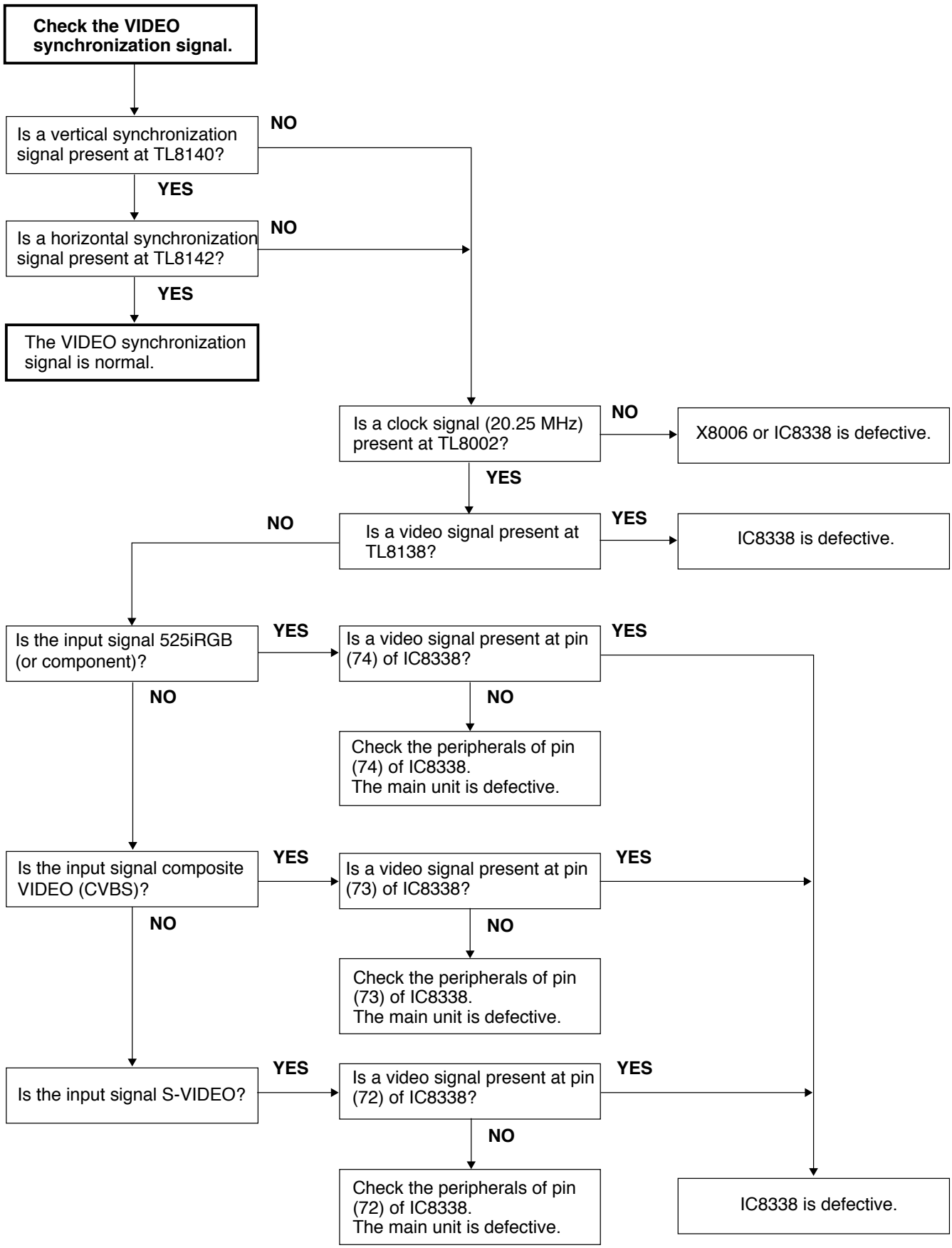

IC8004 peripheral check
Set the signal generator to output a RAMP signal.
Is a synchronization signal present at TL8022, TL8025, and TL8084?
NO
The IC8325 peripheral parts or IC8025 (CVIC) are defective.
YES
Is a clock signal present at R8128?
NO
The IC8004 clock oscillation circuit or IC8004 is defective.
YES
Check the RAMP signal on TL8073 - 75 using an oscilloscope. Is a correct signal being output?
NO
Is the video signal present at pins (124), (133), and (139) of IC8004?
NO
The IC8367 peripheral circuit or the main unit is defective.
YES
IC8004 is defective.
YES
Is a pulse present at pins (21) - (88) of IC8004?
NO
IC8004 is defective.
YES
IC8025 (CVIC) is defective.

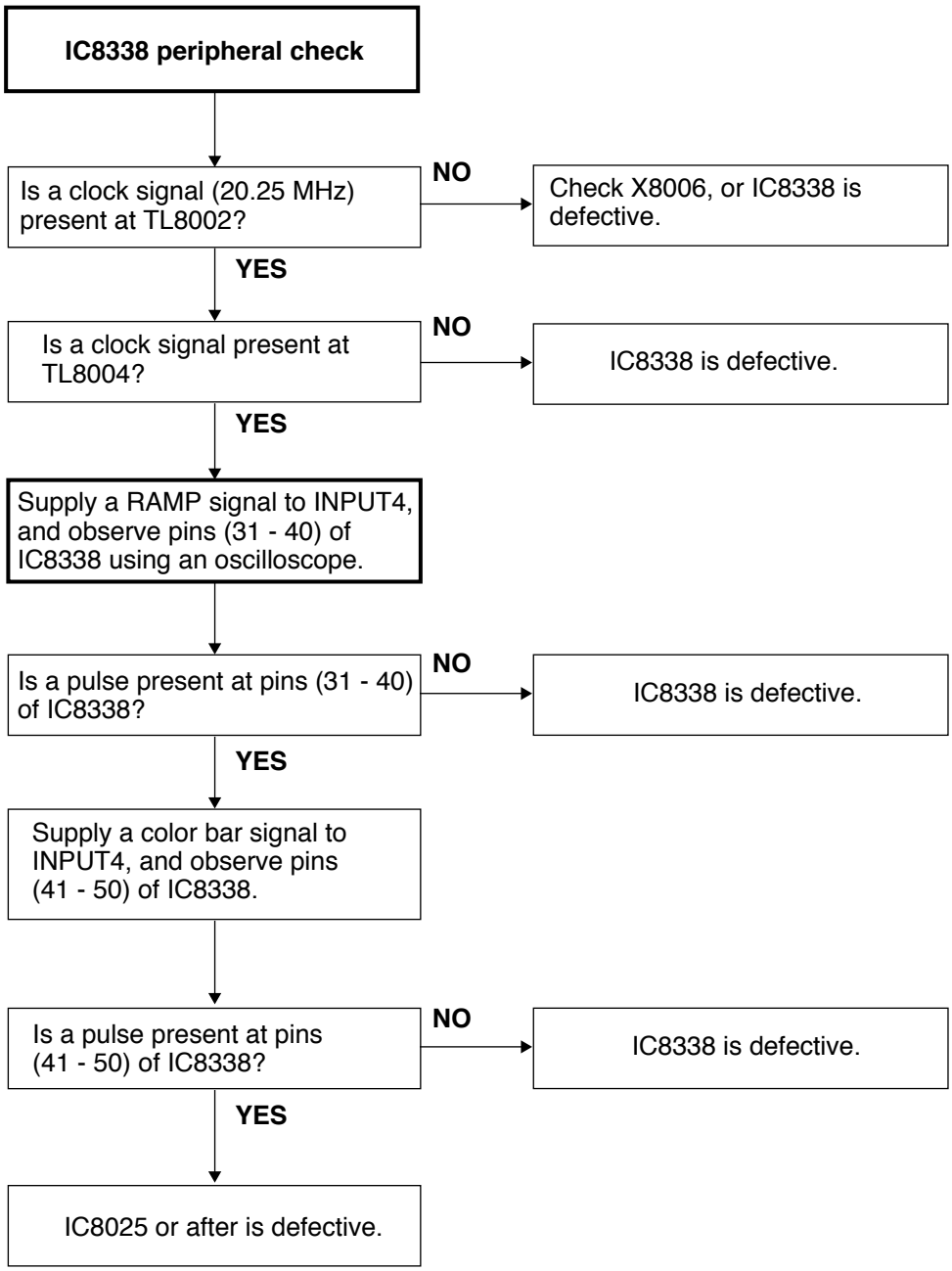

Check the input at the components (480i and 580i are excluded).
Supply a component signal to INPUT1 or INPUT2.
Select INPUT1 or INPUT2 using the key on the main unit or the remote control.
When checking the optional input signal on the menu display, select the component or set it to the component using the RGB/COMP key on the remote control (toggles).
Check the input signal type.
Is a projection image displayed?
NO
Go to "Check the SOG circuit.".
YES
Is the color normal?
NO
Perform the process adjustment. Does the color become normal?
NO
End of "GA4 peripheral check".
YES
Is the image frame normal?
NO
Go to "IC8004 peripheral check".
YES
End.

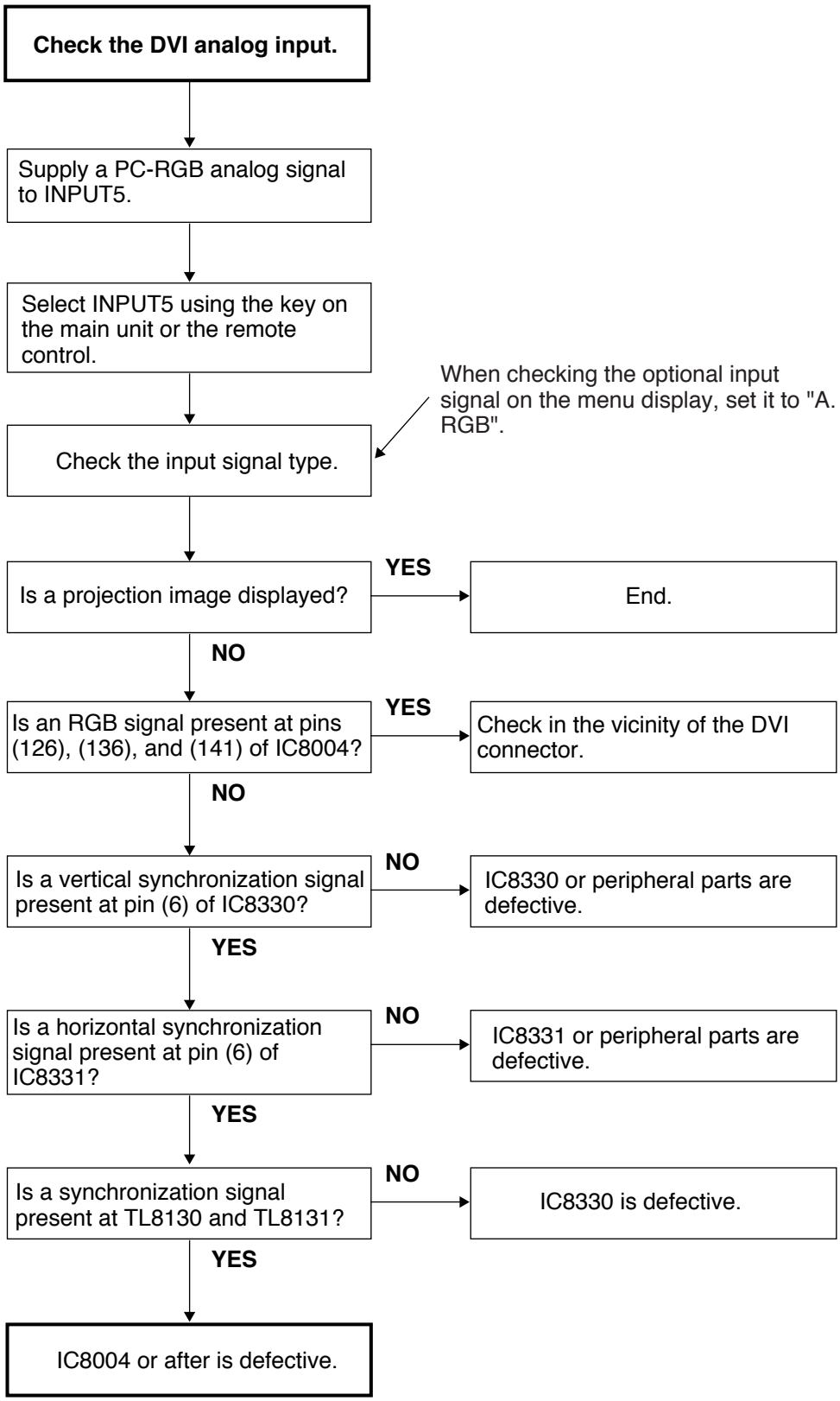

Check the SOG circuit.
Is the signal generator (input source) set correctly?
NO
Set the signal generator (input source) correctly.
YES
Is a composite synchronization signal present at R8981?
YES
The SOG circuit is normal.
NO
Is a composite synchronization signal with the correct timing being output to TL8136?
YES
The IC8325 peripheral circuit is defective.
NO
Is a video signal present at pin (17) of IC8367?
YES
The SOG circuits (IC8371 and Q8022 - 23) are defective.
NO
The IC8367 peripheral circuit is defective or the main unit is defective.

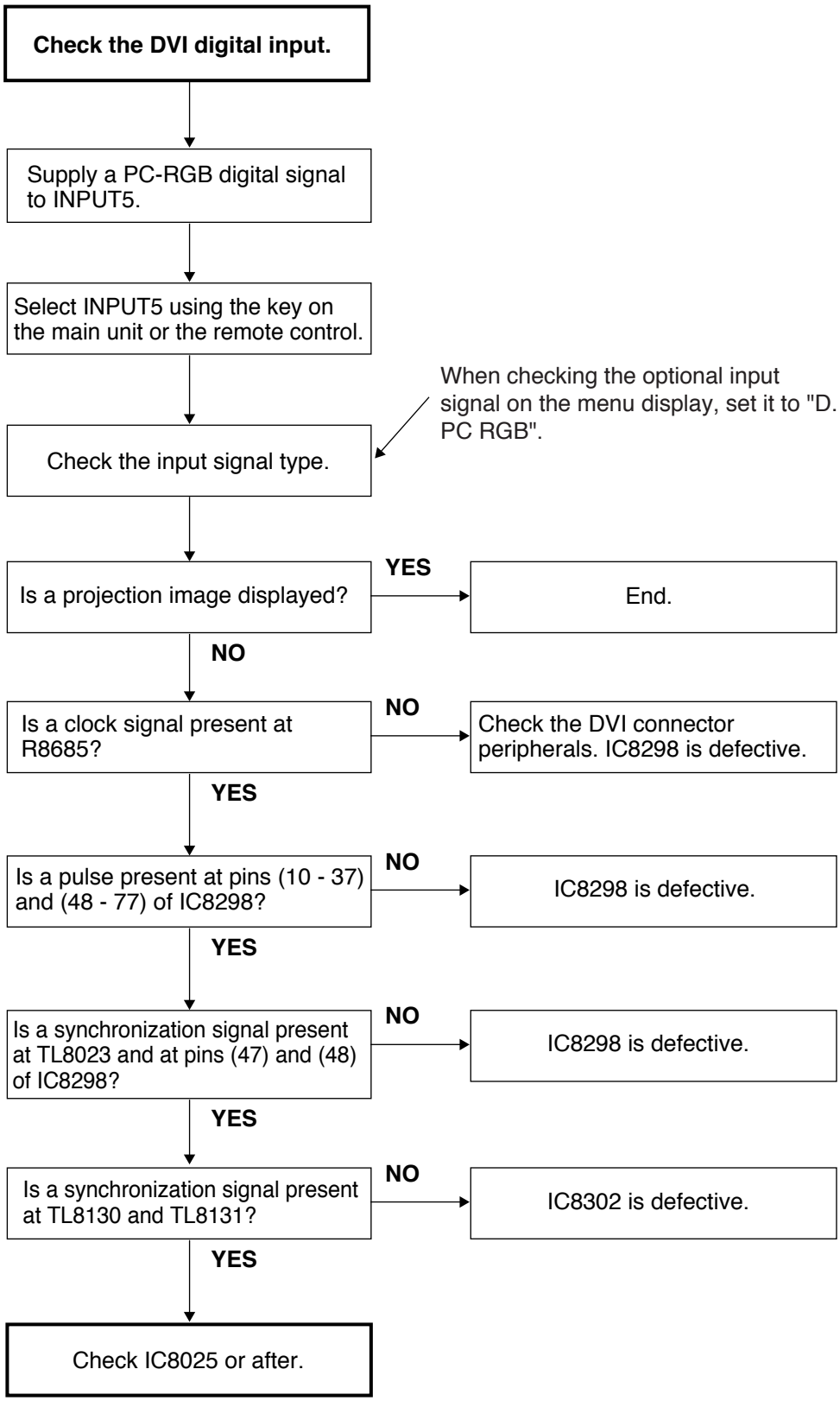

Check the 525i (625i) RGB (or component) input.
Supply a 525i (625i) RGB (or component) signal to INPUT1 or INPUT2.
Select INPUT1 or INPUT2 using the key on the main unit or the remote control.
Check the input signal type.
When checking the optional input signal on the menu display, select RGB (or component) or set it to RGB (or component) using the RGB/COMP key on the remote control.
Is a projection image displayed?
NO
Go to "Check the SOG circuit."
YES
Is the picture distorted?
NO
Go to "Check the VIDEO synchronization signal."
YES
Is the color normal?
NO
Perform the process adjustment. Does the color become normal?
NO
Go to "GA4 peripheral check".
YES
Is the image frame normal?
NO
Go to "IC8004 peripheral check".
YES
End.


Check the composite VIDEO (CVBS) input.
Check the S-VIDEO input.
Supply an NTSC3.58 VIDEO signal to INPUT4.
Supply an NTSC3.58 S-VIDEO signal to INPUT3.
Select INPUT4 using the key on the main unit or the remote control.
Select INPUT3 using the key on the main unit or the remote control.
Select NTSC3.58 as the optional video signal system on the menu display.
Select the video signal type.
Is a projection image displayed?
Is the picture distorted?
NO
Go to "Check the VIDEO synchronization signal."
YES
Is the color normal?
Is the image frame normal?
NO
Go to "IC8338 peripheral check".
YES
Set the video signal system to Auto and see if any abnormality is present.
End.


Check the VIDEO synchronization signal.
Is a vertical synchronization signal present at TL8140?
NO
YES
Is a horizontal synchronization signal present at TL8142?
NO
YES
The VIDEO synchronization signal is normal.
Is a clock signal (20.25 MHz) present at TL8002?
NO
X8006 or IC8338 is defective.
YES
Is a video signal present at TL8138?
YES
IC8338 is defective.
NO
Is the input signal 525iRGB (or component)?
YES
Is a video signal present at pin (74) of IC8338?
YES
NO
NO
Check the peripherals of pin (74) of IC8338.
The main unit is defective.
Is the input signal composite VIDEO (CVBS)?
YES
Is a video signal present at pin (73) of IC8338?
YES
NO
NO
Check the peripherals of pin (73) of IC8338.
The main unit is defective.
Is the input signal S-VIDEO?
YES
Is a video signal present at pin (72) of IC8338?
YES
NO
Check the peripherals of pin (72) of IC8338.
The main unit is defective.
IC8338 is defective.


IC8338 peripheral check
Is a clock signal (20.25 MHz) present at TL8002?
NO
Check X8006, or IC8338 is defective.
YES
Is a clock signal present at TL8004?
NO
IC8338 is defective.
YES
Supply a RAMP signal to INPUT4, and observe pins (31 - 40) of IC8338 using an oscilloscope.
Is a pulse present at pins (31 - 40) of IC8338?
NO
IC8338 is defective.
YES
Supply a color bar signal to INPUT4, and observe pins (41 - 50) of IC8338.
Is a pulse present at pins (41 - 50) of IC8338?
NO
IC8338 is defective.
YES
IC8025 or after is defective.


Check the DVI analog input.
Supply a PC-RGB analog signal to INPUT5.
Select INPUT5 using the key on the main unit or the remote control.
When checking the optional input signal on the menu display, set it to "A. RGB".
Check the input signal type.
Is a projection image displayed?
YES
End.
NO
Is an RGB signal present at pins (126), (136), and (141) of IC8004?
YES
Check in the vicinity of the DVI connector.
NO
Is a vertical synchronization signal present at pin (6) of IC8330?
NO
IC8330 or peripheral parts are defective.
YES
Is a horizontal synchronization signal present at pin (6) of IC8331?
NO
IC8331 or peripheral parts are defective.
YES
Is a synchronization signal present at TL8130 and TL8131?
NO
IC8330 is defective.
YES
IC8004 or after is defective.


Check the DVI digital input.
Supply a PC-RGB digital signal to INPUT5.
Select INPUT5 using the key on the main unit or the remote control.
When checking the optional input signal on the menu display, set it to "D. PC RGB".
Check the input signal type.
Is a projection image displayed?
YES
End.
NO
Is a clock signal present at R8685?
NO
Check the DVI connector peripherals. IC8298 is defective.
YES
Is a pulse present at pins (10 - 37) and (48 - 77) of IC8298?
NO
IC8298 is defective.
YES
Is a synchronization signal present at TL8023 and at pins (47) and (48) of IC8298?
NO
IC8298 is defective.
YES
Is a synchronization signal present at TL8130 and TL8131?
NO
IC8302 is defective.
YES
Check IC8025 or after.

# Technische Daten

| | |
|---|---|
| Produkttyp | Projektor |
| Modell | XV-Z12000 |
| Videosystem | NTSC 3.58/NTSC 4.43/PAL/PAL-M/PAL-N/PAL 60/SECAM/DTV480I/<br>DTV480P/DTV720P/DTV1080I |
| Wiedergabeverfahren | DLP-Chip, optische RGB-Verschlussmethode |
| DLP-Panel | Panel-Größe: 0.8"<br>Display-Verfahren: Single Panel Digital Micromirror Device (DMD™) von Texas Instruments<br>Antriebsverfahren: Digital Light Processing (DLP™)<br>Anzahl der Bildpunkte: 921.600 Bildpunkte (1.280 [H] X 720 [V]) |
| Objektiv | 1–1,35 X Zoom-Objektiv, F2,5–8, f = 32,5–44,0 mm |
| Projektionslampe | Lampe 270 W SHP |
| S-Videoeingangssignal | 4-pol. Mini DIN-Anschluss (INPUT 3)<br>Y (Luminanzsignal): 1,0 Vs-s, negatives Sync., 75 Ω terminiert<br>C (Chrominanzsignal): Stoß 0,286 Vs-s, 75 Ω terminiert |
| Komponenten-Eingangssignale | RCA-Anschluss (INPUT 1, 2)<br>Y: 1,0 Vs-s, negatives Sync., 75 Ω terminiert<br>$P_B$: 0,7 Vs-s, 75 Ω terminiert<br>$P_R$: 0,7 Vs-s, 75 Ω terminiert |
| Horizontale Auflösung | 520 Fernsehzeilen (NTS 3.58), 750 Fernsehzeilen (DTV 720P) |
| RGB-Eingangssignal | DVI-I-Anschluss: (INPUT 5)/ RCA-Anschluss: INPUT 1/2<br><Digital><br>Eingangsimpedanz 50 Ω<br>Eingangspegel 250-1000 mV<br><Analog><br>Eingangsimpedanz 75 Ω<br>Eingangspegel 0,7 Vs-s<br><Synchronisationssignal><br>• Separates Synch. / Komposit-Synch.<br>Eingangspegel TTL-Pegel<br>Eingangsimpedanz 1 KΩ<br>•Grün auf Synch.<br>Eingangspegel (Synchronisierungseingang) 0,286Vs-s<br>Eingangsimpedanz 75 Ω |
| Videoeingangssignal | RCA-Anschluss: VIDEO (INPUT 4), gemischtes Video, 1,0 Vs-s, negatives Sync., 75 Ω terminiert |
| Computer-Steuerungssignal | 9-Pin D-Sub-Steckanschluß (RS-232C-Eingangs-Port) |
| Pixeltakt | 12–120 MHz |
| Vertikale Frequenz | 43–100 Hz |
| Horizontale Frequenz | 15–81 kHz |
| Nennspannung | 100–240 V Wechselstromspannung (Hongkong: 220V) |
| Eingangsspannung | 3,7 A (Bei der Verwendung von 100 V Wechselstrom)/(Hongkong: 1,6A) |
| Nennfrequenz | 50/60 Hz (Hongkong: 50Hz) |
| Leistungsaufnahme (normal) | 365 W (Hongkong: 345W) |
| Leistungsaufnahme (Bereitschaft) | Ca. 0,1 W (Bei der Verwendung von 100 V) |
| Wärmeableitung | 1.400BTU/Stunde |
| Betriebstemperatur | +5°C bis +35°C |
| Lagertemperatur | –20°C bis +60°C |
| Gehäuse | Plastik |
| I/R-Trägerfrequenz | 38 kHz |
| Abmessungen (ca.) | 475 (B) X 178 (H) X 406 (T) mm (nur Hauptgerät)<br>475 (B) X 178(H) X 496 (T) mm (einschließlich der Anschlussabdeckung) |
| Gewicht (ca.) | 9,4 kg |
| Mitgeliefertes Zubehör | Fernbedienung, Zwei Batterien der Bröße “AA”, Netzkabel (3,6 m), DVI an 15-pin D-sub-Adapter, 21-pol. Konvertierungsadapter, Video-Kabel, Anschluß-Abdeckung, Objektivkappe (befestigt), SharpVision Manager-Software-CD-ROM, Projektor-Bedienungsanleitung, SharpVision Manager-Bedienungsanleitung |
| Ersatzteile | Lampeneinheit (Lampen-/Geh ä usemodul)(BQC-XVZ100005),Fernbedienung (RRMCGA216WJSA), Batterien der Bröße "AA",Netzkabel für Europa (ausgenommen Groß britannien) und Korea:QACCVA011WJPZ, Netzkabel für Groß britannien, Hongkong und Singapur: QACCBA036WJPZ,Netzkabel f ü r Australien und Neu-seeland: QACCLA018WJPZ, DVI an 15-Pin-D-Sub-Adapter (QCNWGA010WJZZ), 21-pol.Konvertierungsadapter (QSOCZ0361CEZZ),Video-Kabel (QCNWGA001WJPZ),Objektivkappe (PCAPH1056CESA),Anschlu ß -Abdeckung (CCOVA1985CE03),SharpVision Manager-Software-CD-ROM (UDSKAA040WJZZ), Bedienungsanleitungen;für 7 europäische Sprachen (TINS-A972WJZZ (diese Anleitung))/für Chinesisch, Koreanisch und Arabisch (TINS-A973WJZZ), Sharp Vision Manager-Bedienungsanleitung (TINS-B097WJZZ) |

Dieser SHARP-Projektor verwendet einen DMD-Chip. Dieses hoch entwickelte Panel enthält 921.600 Pixel. Bei allen technologisch fortschrittlichen, elektronischen Geräten, z. B. Großbild-Fernsehern, Videosystemen bzw. Videokameras, sind bestimmte Toleranzgrenzen für die Funktionen gegeben.

Dieses Gerät hat einige inaktive, innerhalb akzeptierter Toleranzgrenzen liegende Bildpunkte, die als leuchtende oder als nicht aktive Punkte auf der Bildwand wiedergegeben werden. Dies hat keinen Einfluss auf die Bildqualität oder die Lebensdauer des Gerätes.

***Änderungen der technischen Daten ohne vorherige Ankündigung vorbehalten.***

# HINWEIS FÜR DAS WARTUNGSPERSONAL

## ACHTUNG: UV-STRAHLUNG

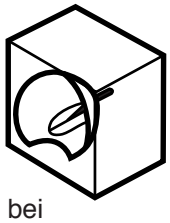
**Die Beleuchtungsquelle des LCD-Projektors, eine UHP-Lampe, emittiert eine geringe Menge UV-Strahlung.**

### DIREKTE BESTRAHLUNG AUF AUGEN UND HAUT MUSS VERMIEDEN WERDEN.

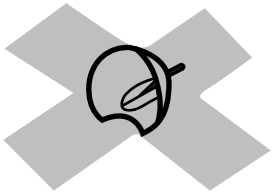
**Zur Gewährleistung der Sicherheit muß folgendes beachtet werden:**

1. Bei Arbeiten am Projektor bei eingeschalteter Lampe und abgenommenem oberen Gehäuse muß unbedingt eine Sonnenbrille getragen werden.

2. Die Lampe darf nicht außerhalb des Lampengehäuses eingeschaltet werden.



3. Betrieb für länger als 2 Stunden bei abgenommenem Gehäuse ist nicht zulässig.



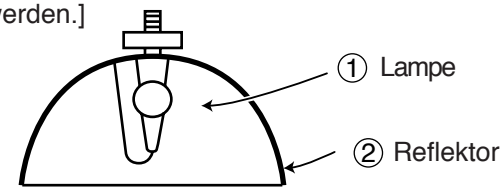
## Zur Beachtung bei UV-Strahlung und Mitteldruck-Lampen

1. Vor dem Auswechseln der Lampe muß der Netzstecker gezogen werden.
2. Vor Durchführung von Wartungsarbeiten muß das Gerät eine Stunde abkühlen.
3. Die Lampe darf nur gegen eine der gleichen Art ausgewechselt werden. Typ BQC-XVZ100005, bemessen für 355 V/250 W.
4. Die Lampe gibt eine geringe UV-Strahlung ab, daher muß direkter Augenkontakt vermieden werden.
5. Die Mitteldruck-Lampe weist ein Explosionsrisiko auf. Daher müssen die nachstehenden Installationsanweisungen beachtet werden, und die Lampe muß vorsichtig behandelt werden.

## ■ Auswechseln der Lampe

**Hinweis:**

Da die Lampe während des Betriebs sehr heiß wird, sollte die Lampe erst ausgewechselt werden, nachdem das Gerät mindestens eine Stunde ausgeschaltet war, damit die Lampe ausreichend abkühlen kann.
Beim Installieren der neuen Lampe muß darauf geachtet werden, die Lampe selbst (Glaskolben) nicht zu berühren. Vielmehr muß die Lampe am Reflektor ② gehalten werden.
[Es darf nur ein Original-Ersatzteil verwendet werden.]




**GEFAHR!** — Niemals die Spannungsversorgung einschalten, ohne daß eine Lampe vorhanden ist, um elektrische Schläge und Schäden am Gerät zu vermeiden, da der Stabilisator anfangs hohe Spannungen erzeugt.

Da eine geringe Menge UV-Strahlung an der Öffnung zwischen den Lüftern austritt, wird empfohlen, während der Wartungsarbeiten die Abdeckkappe des Zusatzobjektivs an dieser Öffnung anzubringen, um Augen und Haut vor den UV-Strahlen zu schützen.

## Vorsichtsmaßregeln für bleifreien Lötzinn

1 Verwendung von bleifreiem Lötzinn

Die "Haupt-, Taste-, Einlass (Hinter)-, Einlass (Vorter)-, LED-, Blendentreiber-, PC-I/F-, Netz-Platine" dieses Modells verwendet bleifreien Lötzinn. Das LF-Symbol zeigt bleifreien Lötzinn an und ist an den Platinen und Wartungsanleitungen angebracht. Der Buchstabe nach LF zeigt den Typ des bleifreien Lötzinns an.

Beispiel:

Zeigt bleifreien Lötzinn aus Zinn, Silber und Kupfer an.

2 Bei Reparatur der mit bleifreiem Lötzinn gelöteten Platine immer bleifreien Lötzinn verwenden. Reparatur mit herkömmlichem Lötzinn kann zu Schäden oder Unfällen aufgrund von Rissen führen.

Da der Schmelzpunkt bleifreien Lvtzinns (Sn-Ag-Cu) um 40°C höher als der von Bleidraht-Lötzinn ist, empfehlen wir die Verwendung einer speziellen Lötspitze. Wenn Fragen über den Beschaffung leitfreien Lötzinns oder spezieller Lötspitzen bestehen, wenden Sie sich an unsere Kundendienstvertretung in Ihrem Gebiet.

3 Löten

Da der Schmelzpunkt bleifreien Lötzinns (Sn-Ag-Cu) etwa 220°C beträgt, was um 40°C höher als der von bleihaltigem Lötzinn ist, und außerdem schlechte Löt-Benetzbarkeit aufweist, kann es erforderlich werden, die Lötspitze längere Zeit in Kontakt mit der Platine zu halten. Da die Lötlauge abfliessen kann oder der maximale Hitzewiderstand von Teilen überschritten werden kann, die Lötspitze sofort von der Platine nehmen, sobald eine gute Lötung erzielt ist. Bleifreier Lötzinn enth_lt mehr Zinn, und das Ende der Lötspitze kann leicht angegriffen werden. Immer sicherstellen, dass der Lötkolben nur bei Bedarf eingeschaltet wird.

Wenn ein anderer Typ von Lötzinn an der Lötspitze haften bleibt, verschmilzt er mit dem bleifreien Lötzinn. Die Lötspitze nach jeder Verwendung reinigen.

Wenn die Lötspitze bei der Verwendung geschwärzt wird, die Spitze mit Stahlwolle oder feinem Sandpapier abschmirgeln.

Immer beim Austausch von Teilen vorsichtig sein, und die Polaritätsanzeige auf der Platinenbeschriftung beachten.

Bleifreier Lötzinn zur Wartung

| Teile-Nr. | ★ | Beschreibung | | Code |
|---|---|---|---|---|
| ZHNDAi123250E | J | ϕ0.3mm | 250g(1roll) | BL |
| ZHNDAi126500E | J | ϕ0.6mm | 500g(1roll) | BK |
| ZHNDAi12801KE | J | ϕ1.0mm | 1 Rolle | BM |

# Bedienungsanleitung

## Bedienelemente

### Projektor (Vorde-und Draufsicht)




**Einstelltasten (▼, ▲, ◀, ▶)**
Für die Wahl der Menüpunkte.

**ENTER-Taste**
Für die Einstellung der gewählten oder eingestellten Menüpunkte.

**UNDO-Taste**
Für das Rückgängigmachen eines Bedienschrittes oder für die Rückkehr zu den Grundeinstellungen.

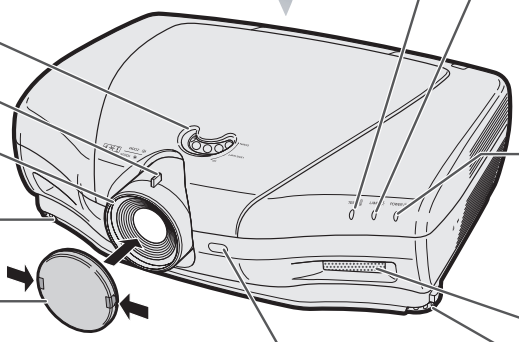
**MENU-Taste**
Für die Anzeige des Justierungs- und Einstellungsbildschirms.

**RESIZE-Taste**
Für das Umschalten der Bildwandgröße (SEITENBA., SMART STRECKEN, usw.)

**INPUT-Taste**
Für das Umschalten zwischen Eingangsmodus 1, 2, 3, 4 und 5.

**ON-Taste**
Schaltet die Stromversorgung ein.

**STANDBY-Taste**
Schaltet den Projektor in den Standby-Modus.



**TEMP.-Anzeige (Temperaturwarn)**
Wenn die interne Temperatur ansteigt, leuchtet diese Anzeige rot.

**LAMP-Anzeige (Lampenaustausch)**
Leuchtet bei normaler Funktion blau auf. Die Lampe austauschen, wenn die Anzeige rot leuchtet.

**Linsenversteller**

**Zoom-Knopf**

**Fokusring**

**Einstellfuß**

**Objektivkappe**

**Netz-Anzeige**
Leuchtet rot, wenn sich der Projektor im Bereitschaftsbetrieb befindet. Wenn die Stromversorgung eingeschaltet wird, leuchtet diese Anzeige blau.

**Luftzufuhr**

**Einstellfuß**

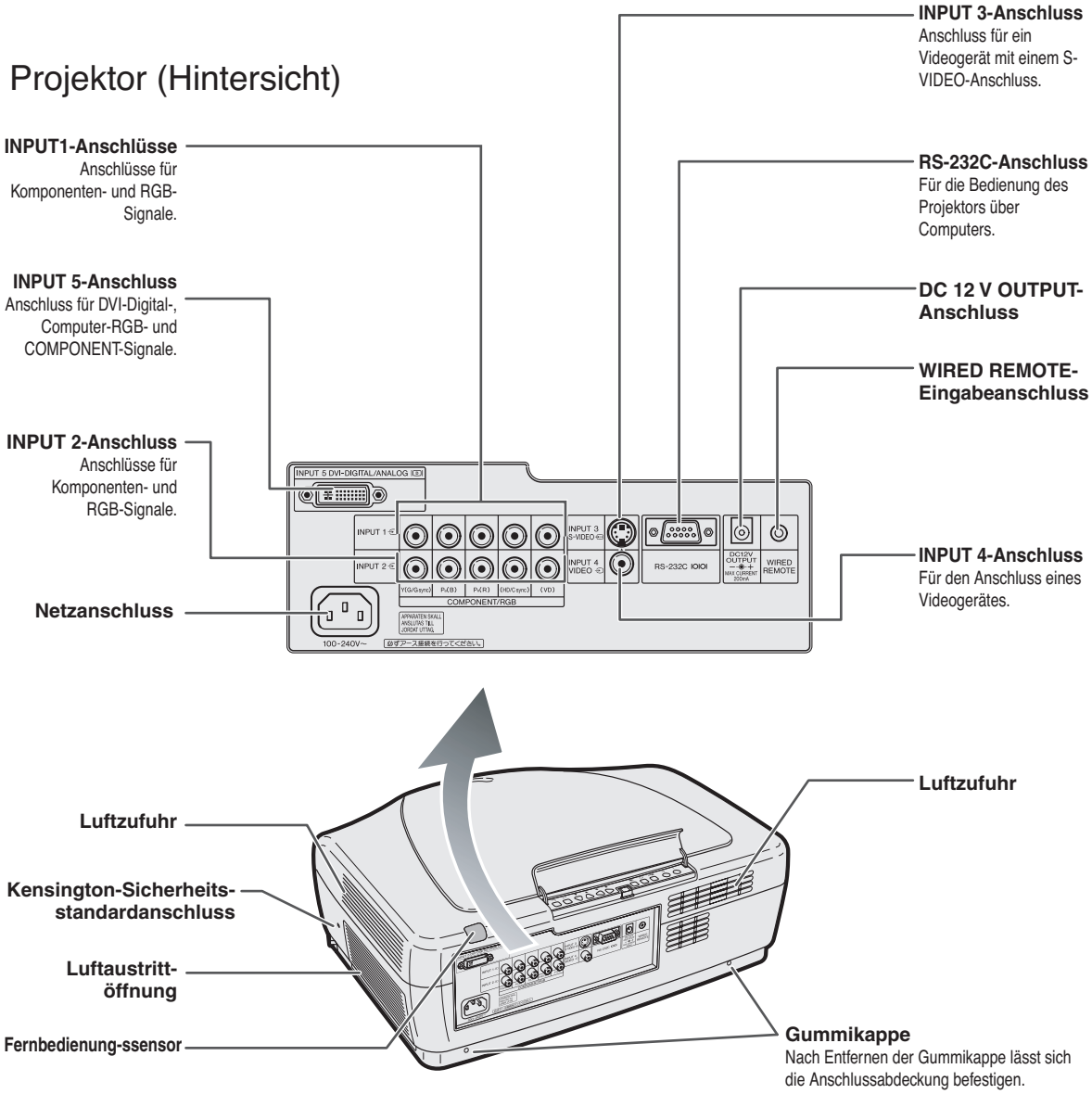
**Fernbedienungssensor**

**Anbringen und Abnehmen der Objektivkappe**

- Drücken Sie an den beiden Tasten der Objektivkappe, und bringen Sie diese an dem Objektiv an. Danach geben Sie die Tasten frei, um die Objektivkappe zu verriegeln.
- Drücken Sie die beiden Tasten der Objektivkappe, und nehmen Sie die Objektivkappe von dem Objektiv ab.

**In diesem Bedienungsanleitung werden die Abbildungen und die Bildschirmanzeigen zur Erläuterung vereinfacht dargestellt und können von der tatsächlichen Anzeige etwas abweichen.**

## Projektor (Hintersicht)




**Verwendung der Kensington-Sperre**

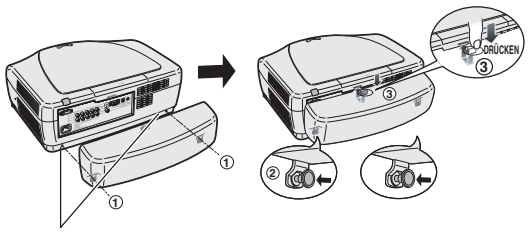
Dieser Projektor ist mit einem Kensington-Sicherheitsstandardanschluss für die Verwendung des Kensington MicroSaver-Sicherheitssystem ausgestattet. Lesen Sie hinsichtlich der Verwendung die Informationen, die dem System beiliegen, um den Projektor zu sichern.

**Verwendung der Anschlussabdeckung**

Die Anschlussabdeckung (im Lieferumfang enthalten) befestigen, um die Anschlusskabel zu verdecken, wenn der Projektor auf einem Schreibtisch verwendet, weiter oben oder an der Decke befestigt wird.

**Befestigung der Anschlussabdeckung**

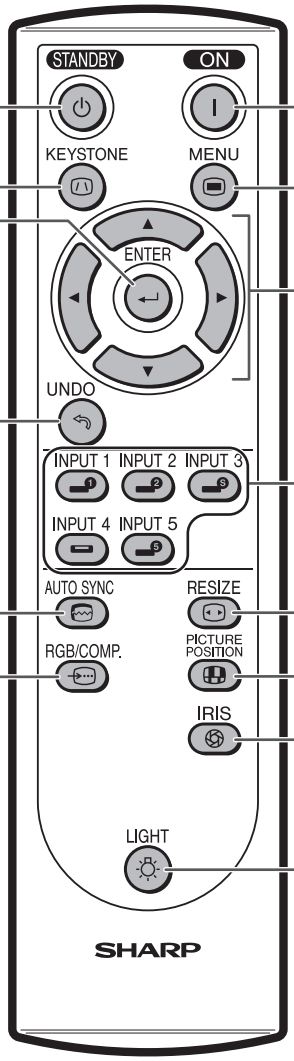
1 Den Haken auf der Anschlussabdeckung am Einsatzloch im Haken auf der Rückseite des Projektors ausrichten.
2 Den Haken in die dargestellte Pfeilrichtung drücken, um die Anschlussabdeckung am Projektor zu befestigen.
3 Die Anschlussabdeckung in die Befestigungskerbe am Projektor einsetzen, während die Zungen im Inneren der Anschlussabdeckung mit den Fingern nach außen gedrückt wird.




Entfernen der am Projektor befestigten Gummikappen und Befestigen der Clips.

## Bedienelemente

### Fernbedienung (Vordersicht)




**STANDBY-Taste**
Schaltet den Projektor in den Standby-Modus.

**KEYSTONE-Taste**
Für die Trapezkorrektur oder die Einstellung der vertikalen Größe.

**ENTER-Taste**
Für die Einstellung der gewählten oder eingestellten Menüpunkte.

**UNDO-Taste**
Für das Rückgängigmachen eines Bedienschrittes oder für die Rückkehr zu den Grundeinstellungen.

**AUTO SYNC-Taste**
Für das automatische Einstellen von Bildern, wenn ein Computer angeschlossen ist.

**RGB/Komponenten-Taste (RGB/COMP.)**
Für die Umschaltung zur jeweiligen Eingangssignal-Art.

**ON-Taste**
Schaltet die Stromversorgung ein.

**MENU-Taste**
Für die Anzeige des Justierungs- und Einstellungsbildschirms.

**Einstelltasten (▼, ▲, ◀, ▶)**
Für die Wahl der Menüpunkte.

**INPUT-Tasten**
Zum Umschalten auf die entsprechenden Eingabemodi.

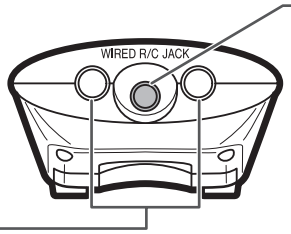
**RESIZE-Taste**
Für das Umschalten der Bildwandgröße (SEITENBA., SMART STRECKEN, usw).

**Bildeinstellungstaste (PICTURE POSITION)**
Zur Auswahl der Bildposition.

**IRIS-Taste**
Zum Umschalten zwischen “HOHE HELLIGKEIT-MODUS”, “MEDIUM-MODUS” und “HOHER-KONTRAST MODUS”.

**Hintergrundbeleuchtung s-Taste (LIGHT)**
Für die Beleuchtung aller Tasten auf der Fernbedienung.

### Fernbedienung (Draufsicht)



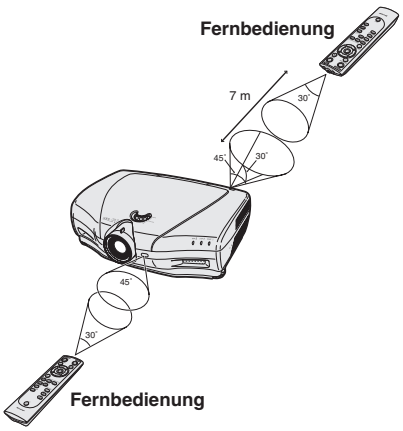

**WIRED R/C JACK**
Fernbedienungsanschluss an den Projektor.

**Signalsender für Fernbedienung**

# Verwendung der Fernbedienung

## Reichweite der Fernbedienung

Der Projektor kann mittels der Fernbedienung innerhalb der in der Abbildung gezeigten Bereiche gesteuert werden.




Hinweis

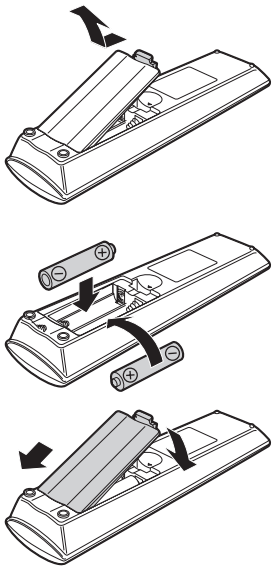
- Das Signal von der Fernbedienung kann für eine einfache Bedienung von der Bildwand reflektiert werden. Die tatsächliche Reichweite des Signals kann je nach Bildwandmaterial unterschiedlich sein.

**Bei Verwendung der Fernbedienung:**

- Nicht fallen lassen, keiner Feuchtigkeit oder hoher Temperatur aussetzen.
- Die Fernbedienung funktioniert unter Umständen nicht unter einer Fluoreszenzlampe. Unter diesen Umständen den Projektor von der Fluoreszenzlampe entfernt aufstellen.

## Einsetzen der Batterien

**Die Batterien (zwei Batterien der Größe "AA") sind in der Packung enthalten.**



**1 Ziehen Sie die Lasche an der Abdeckung herunter und entfernen Sie die Abdeckung in Pfeilrichtung.**

**2 Die beiliegenden Batterien einlegen.**

- Die Batterien einlegen und sicherstellen, dass die Pole mit der Markierung ⊕ und ⊖ im Batteriefach übereinstimmen.

**3 Führen Sie die untere Lasche der Abdeckung in die Öffnung ein und senken Sie die Abdeckung bis sie einrastet.**

**Falsche Verwendung der Batterien kann eine Leckage oder Explosion zur Folge haben. Bitte befolgen Sie die unten stehenden Vorsichtsmaßnahmen.**

### ⚠ Achtung

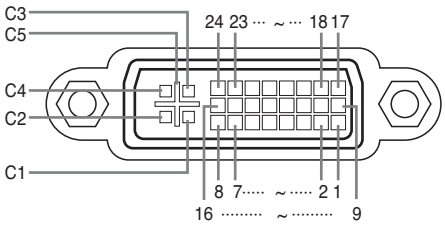
- Die Batterien einlegen und sicherstellen, dass die Pole mit der Markierung ⊕ und ⊖ im Batteriefach übereinstimmen.
- Batterien unterschiedlichen Typs haben unterschiedliche Eigenschaften, verwenden Sie deshalb keine Batterien unterschiedlichen Typs zusammen.
- Verwenden Sie keine neuen und alten Batterien zusammen.
  Dadurch könnte die Lebensdauer der neuen Batterien reduziert werden oder die alten Batterien auslaufen.
- Leere Batterien aus der Fernbedienung herausnehmen, da sie ansonsten auslaufen könnten.
  Aus den Batterien ausgelaufene Batterieflüssigkeit ist für Ihre Haut schädlich, wischen Sie die Batterien deshalb unbedingt zuerst ab und nehmen Sie sie dann mit einem Tuch heraus.

- Die diesem Projektor beiliegenden Batterien können unter Umständen, je nach Handhabung, nach kurzer Zeit aufgebraucht sein. Sicherstellen, dass die Batterien, wenn sie erschöpft sind, so bald wie möglich durch neue Batterien ersetzt werden.
- Nehmen Sie die Batterien heraus, wenn die Fernbedienung lange nicht benutzt wird.

# Pin-Belegung

## Verbindungs-Pin-Zuweisungen

**DVI-I (INPUT 5 / DIGITAL INPUT)-Anschluss:** 29-pol. Stecker




**• DVI-Digital-Eingang**

| Pin Nr. | Signal | Pin Nr. | Signal |
|---|---|---|---|
| 1 | T.M.D.S.-Daten 2- | 16 | Zündkerzenerkennung |
| 2 | T.M.D.S.-Daten 2+ | 17 | T.M.D.S.-Daten 0- |
| 3 | T.M.D.S.-Daten 2-Schutz | 18 | T.M.D.S.-Daten 0+ |
| 4 | Nicht angeschlossen | 19 | T.M.D.S.-Daten 0-Schutz |
| 5 | Nicht angeschlossen | 20 | Nicht angeschlossen |
| 6 | DDC-Takt | 21 | Nicht angeschlossen |
| 7 | DDC-Daten | 22 | T.M.D.S.-Taktschutz |
| 8 | Nicht angeschlossen | 23 | T.M.D.S.-Takt+ |
| 9 | T.M.D.S.-Daten 1- | 24 | T.M.D.S.-Takt- |
| 10 | T.M.D.S.-Daten 1+ | C1 | Nicht angeschlossen |
| 11 | T.M.D.S.-Daten 1-Schutz | C2 | Nicht angeschlossen |
| 12 | Nicht angeschlossen | C3 | Nicht angeschlossen |
| 13 | Nicht angeschlossen | C4 | Nicht angeschlossen |
| 14 | Stromversorgung + 5 V | C5 | Erde |
| 15 | Erde | | |

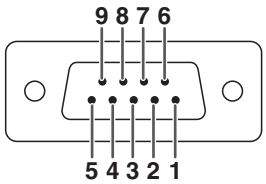
**• DVI-Analog-RGB-Eingang**

| Pin Nr. | Signal | Pin Nr. | Signal |
|---|---|---|---|
| 1 | Nicht angeschlossen | 16 | Zündkerzenerkennung |
| 2 | Nicht angeschlossen | 17 | Nicht angeschlossen |
| 3 | Nicht angeschlossen | 18 | Nicht angeschlossen |
| 4 | Nicht angeschlossen | 19 | Nicht angeschlossen |
| 5 | Nicht angeschlossen | 20 | Nicht angeschlossen |
| 6 | DDC-Takt | 21 | Nicht angeschlossen |
| 7 | DDC-Daten | 22 | Nicht angeschlossen |
| 8 | Vertikales Synch. | 23 | Nicht angeschlossen |
| 9 | Nicht angeschlossen | 24 | Nicht angeschlossen |
| 10 | Nicht angeschlossen | C1 | Analog-Eingang Rot |
| 11 | Nicht angeschlossen | C2 | Analog-Eingang Grün |
| 12 | Nicht angeschlossen | C3 | Analog-Eingang Blau |
| 13 | Nicht angeschlossen | C4 | Horizontales Synch. |
| 14 | Stromversorgung + 5V | C5 | Erde |
| 15 | Erde | | |

**• DVI-Analog-Komponenten-Eingang**

| Pin Nr. | Signal | Pin Nr. | Signal |
|---|---|---|---|
| 1 | Nicht angeschlossen | 16 | Nicht angeschlossen |
| 2 | Nicht angeschlossen | 17 | Nicht angeschlossen |
| 3 | Nicht angeschlossen | 18 | Nicht angeschlossen |
| 4 | Nicht angeschlossen | 19 | Nicht angeschlossen |
| 5 | Nicht angeschlossen | 20 | Nicht angeschlossen |
| 6 | Nicht angeschlossen | 21 | Nicht angeschlossen |
| 7 | Nicht angeschlossen | 22 | Nicht angeschlossen |
| 8 | Nicht angeschlossen | 23 | Nicht angeschlossen |
| 9 | Nicht angeschlossen | 24 | Nicht angeschlossen |
| 10 | Nicht angeschlossen | C1 | Analog-Eingang Pr/Cr |
| 11 | Nicht angeschlossen | C2 | Analog-Eingang Y |
| 12 | Nicht angeschlossen | C3 | Analog-Eingang Pb/Cb |
| 13 | Nicht angeschlossen | C4 | Nicht angeschlossen |
| 14 | Nicht angeschlossen | C5 | Erde |
| 15 | Erde | | |

**RS-232C-Port:** 9-Pin D-Sub-Stecker des DIN-D-Sub RS-232C-Kabels



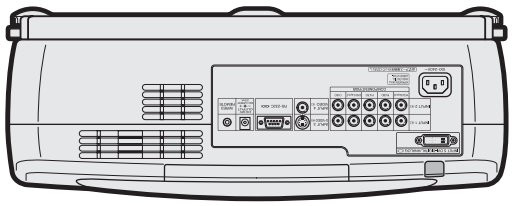

| Pin Nr. | Signal | Name | E/A | Referenz |
|---|---|---|---|---|
| 1 | | | | Nicht angeschlossen |
| 2 | RD | Daten empfangen | Eingang | An internen Schaltkreis angeschlossen |
| 3 | SD | Daten senden | Ausgang | An internen Schaltkreis angeschlossen |
| 4 | | Reserviert | | An internen Schaltkreis angeschlossen |
| 5 | SG | Signalerdung | | An internen Schaltkreis angeschlossen |
| 6 | | Reserviert | | An internen Schaltkreis angeschlossen |
| 7 | | Reserviert | | An internen Schaltkreis angeschlossen |
| 8 | | Reserviert | | An internen Schaltkreis angeschlossen |
| 9 | | | | Nicht angeschlossen |

# Abmessungen

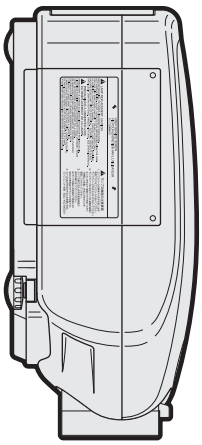
## Abmessungen

**Einheiten: mm**

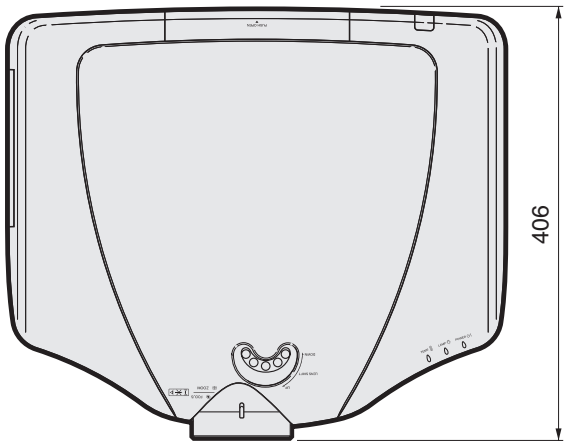
Ansicht von hinten



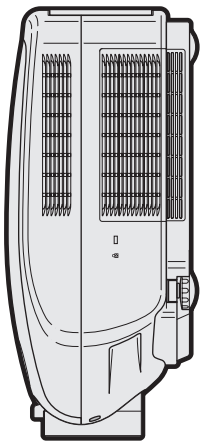
Ansicht von der Seite



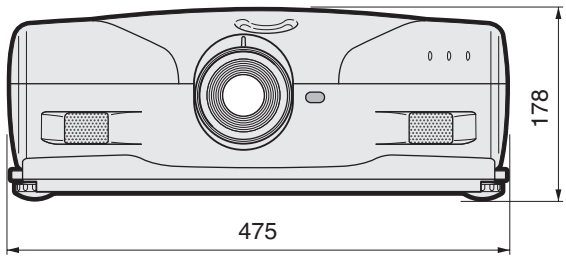
Ansicht von oben



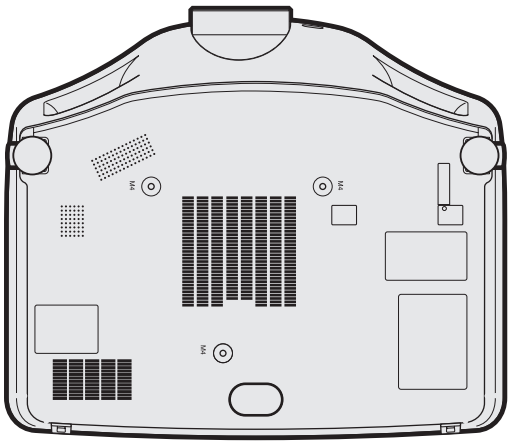

Ansicht von der Seite



Ansicht von vorne




Ansicht von unten



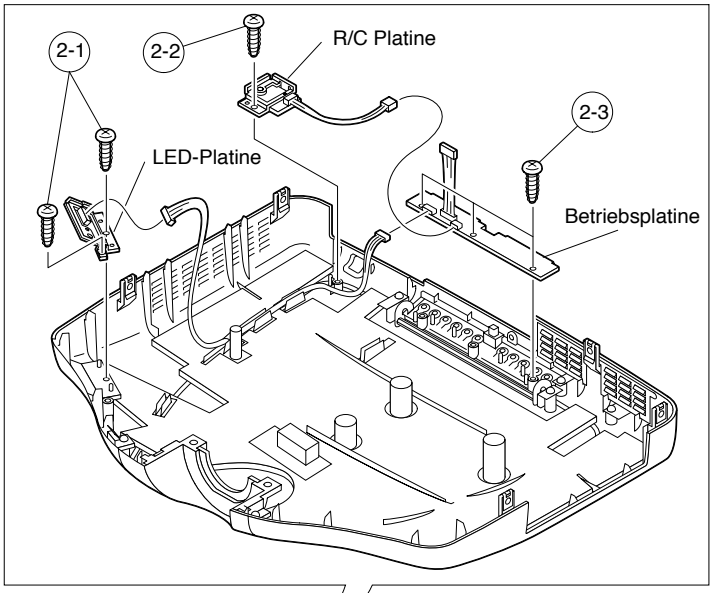
**Einheit:mm**

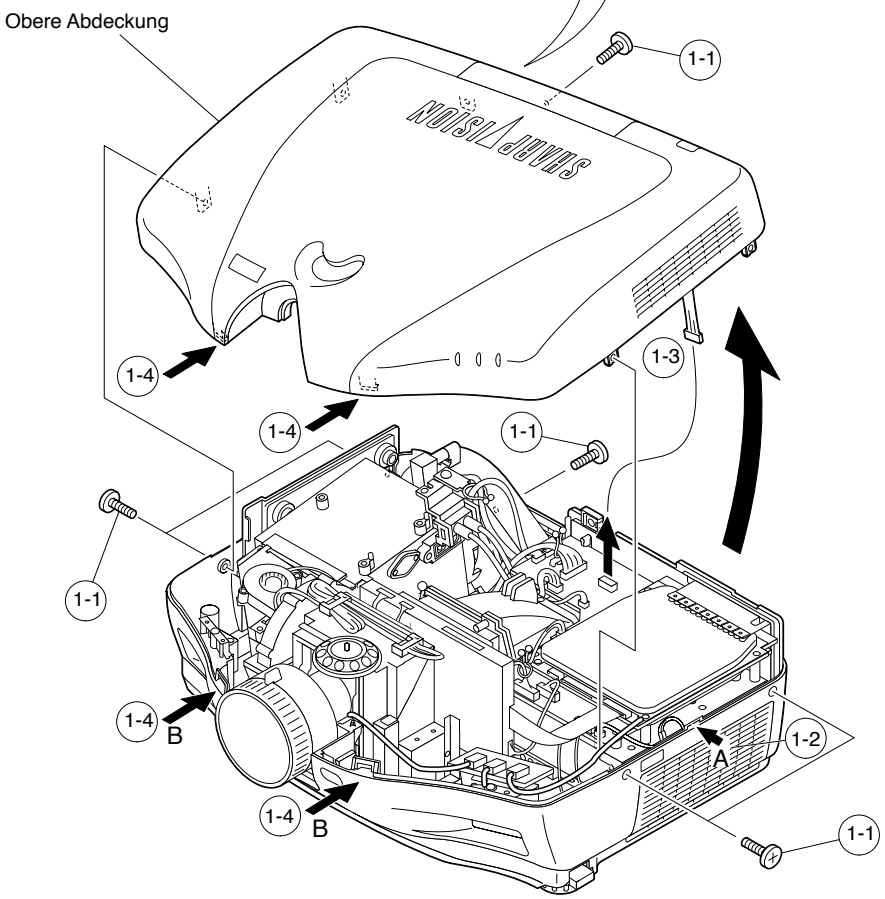
# ENTFERNEN DER HAUPTTEILE

## 1. Ausbau der oberen Abdeckung

1-1. Die sechs Sicherungsschrauben losdrehen.
1-2. An den seitlichen Pfeil A an der Gehäuseunterseite hineindrücken und die hintere Abdeckung anheben.
1-3. Den Stecker abziehen.
1-4. An den vorderen Pfeil B an der Gehäuseunterseite hineindrücken und die Sperrklinken aushaken. Danach die obere Abdeckung abnehmen.

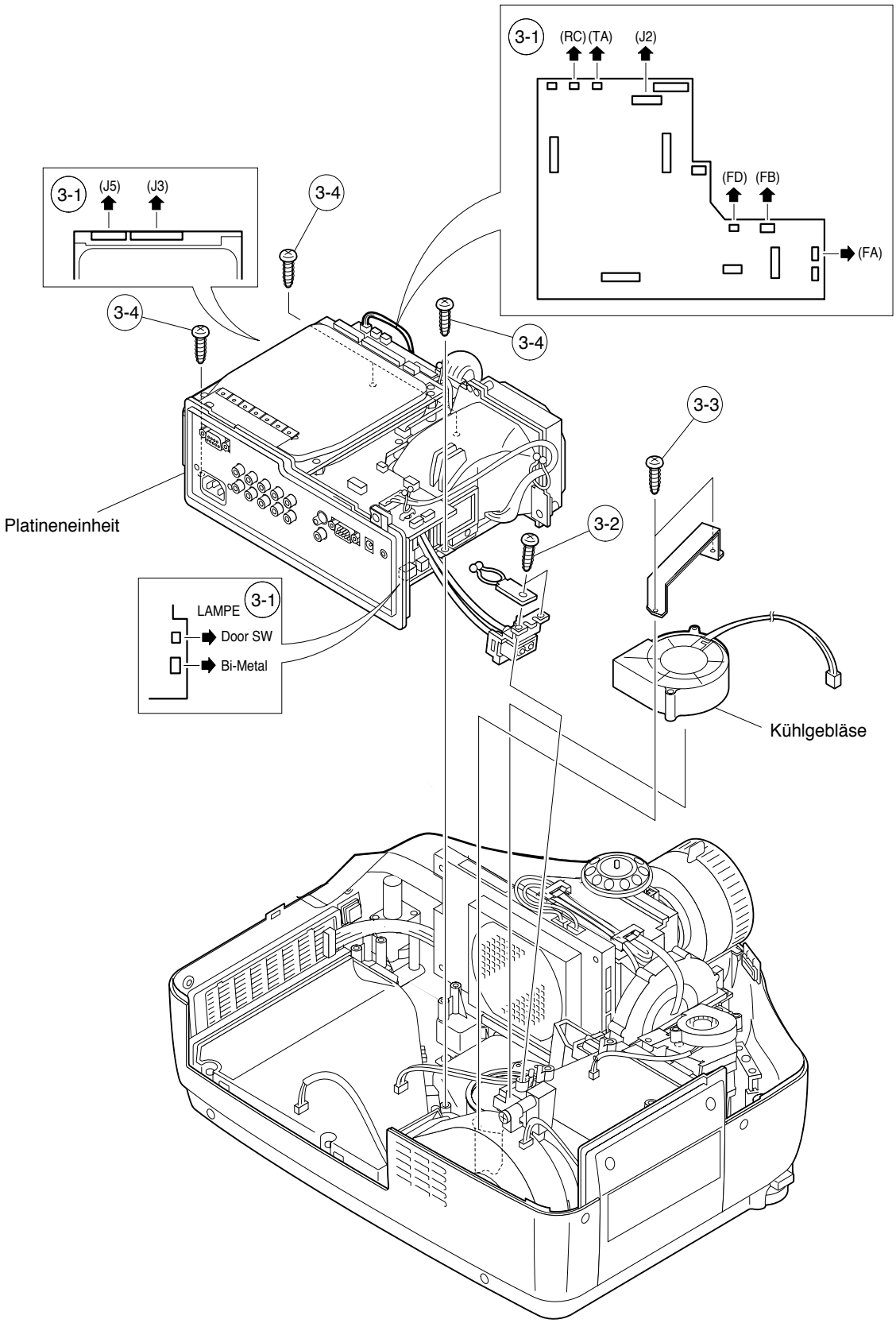
2-1. Die beiden Schrauben losdrehen, dann die LED-Platine entfernen.
2-2. Die Schraube losdrehen und die R/C-Platine entfernen.
2-3. Die drei Schrauben losdrehen und die Betriebsplatine entfernen.



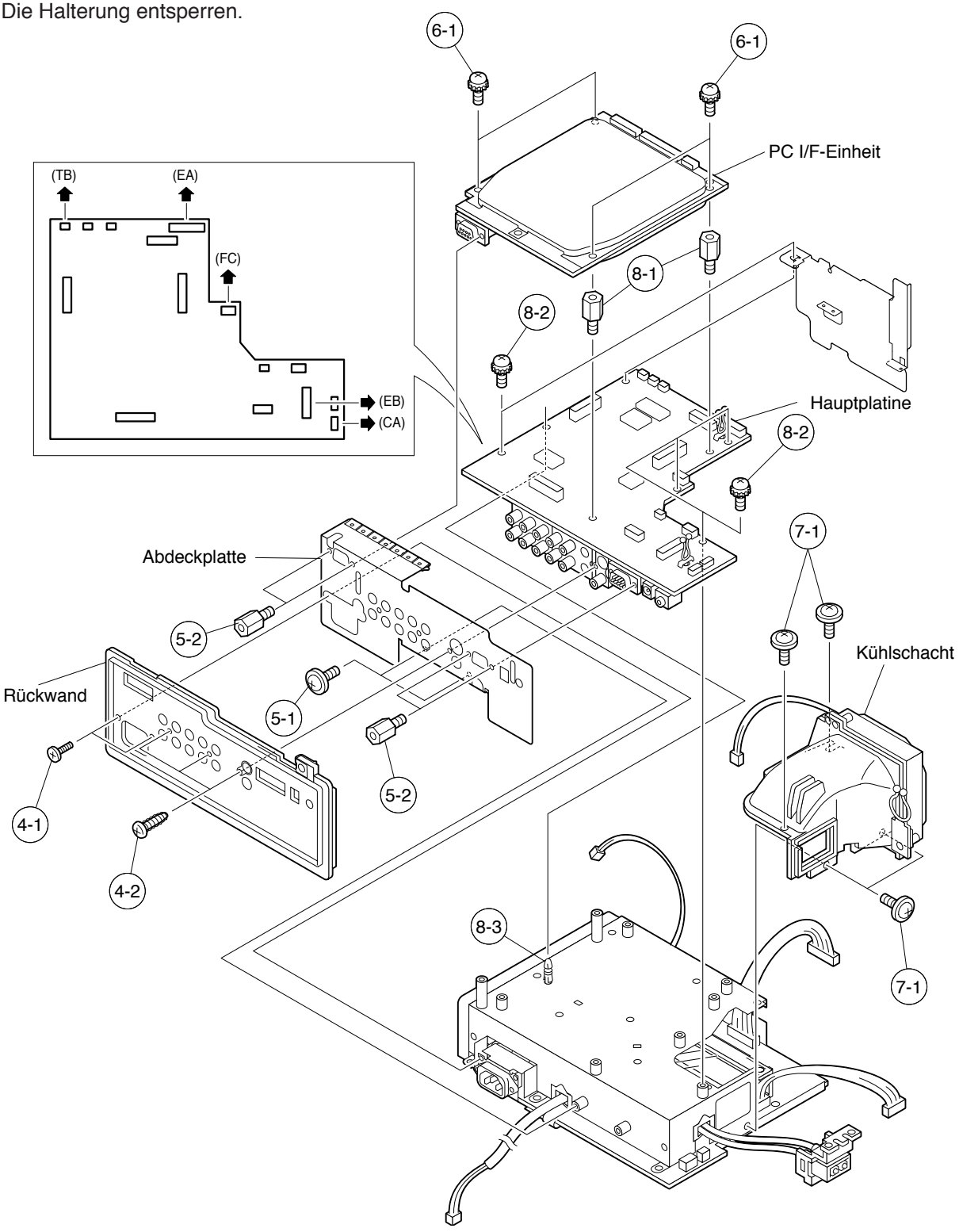
## 2. Ausbau des Kühlgebläses und der Platineneinheit

3-1. Die zehn Steckverbinder abziehen.
3-2. Die beiden Schrauben losdrehen und die Lampenfassung entfernen.
3-3. Die beiden Schrauben losdrehen und das Kühlgebläse entfernen.
3-4. Die vier Schrauben losdrehen und die Platineneinheit entfernen.



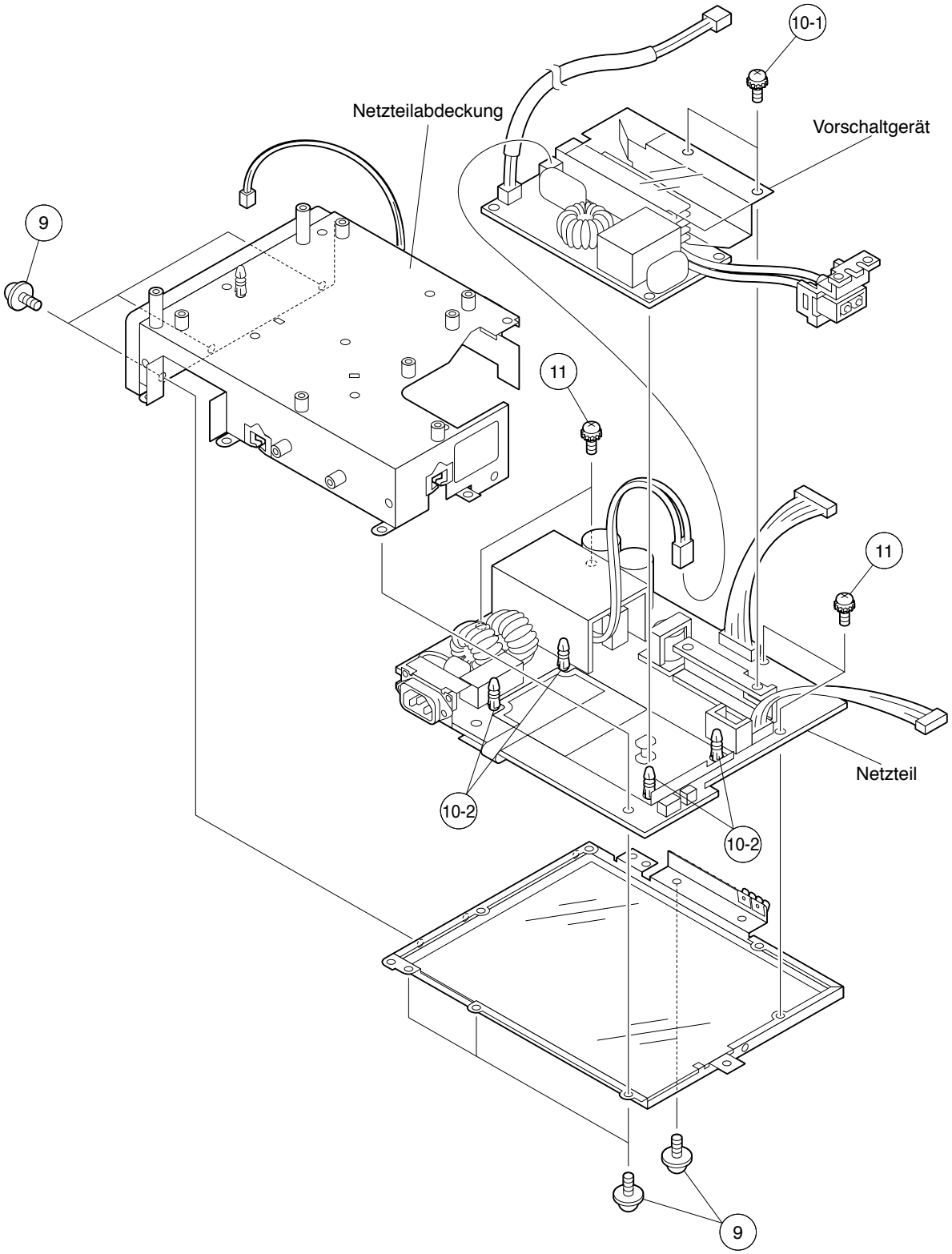
## 3. Ausbau der Rückwand, der PC-Einheit, des Kühlschachts und der Hauptplatineneinheit

4-1. Die beiden Schrauben losdrehen.
4-2. Die drei Schrauben losdrehen und die Abdeckplatte entfernen.
5-1. Die beiden Schrauben losdrehen.
5-2. Die vier Sechskanthalterungen entfernen, dann die Abdeckplatte entfernen.
6-1. Die vier Schrauben losdrehen, dann die PC I/F-Einheit abnehmen.
7-1. Die vier Schrauben losdrehen, dann den Kühlschacht abnehmen.
8-1. Die beiden Sechskanthalterungen entfernen.
8-2. Die fünf Schrauben losdrehen und die Hauptplatine entfernen.
8-3. Die Halterung entsperren.



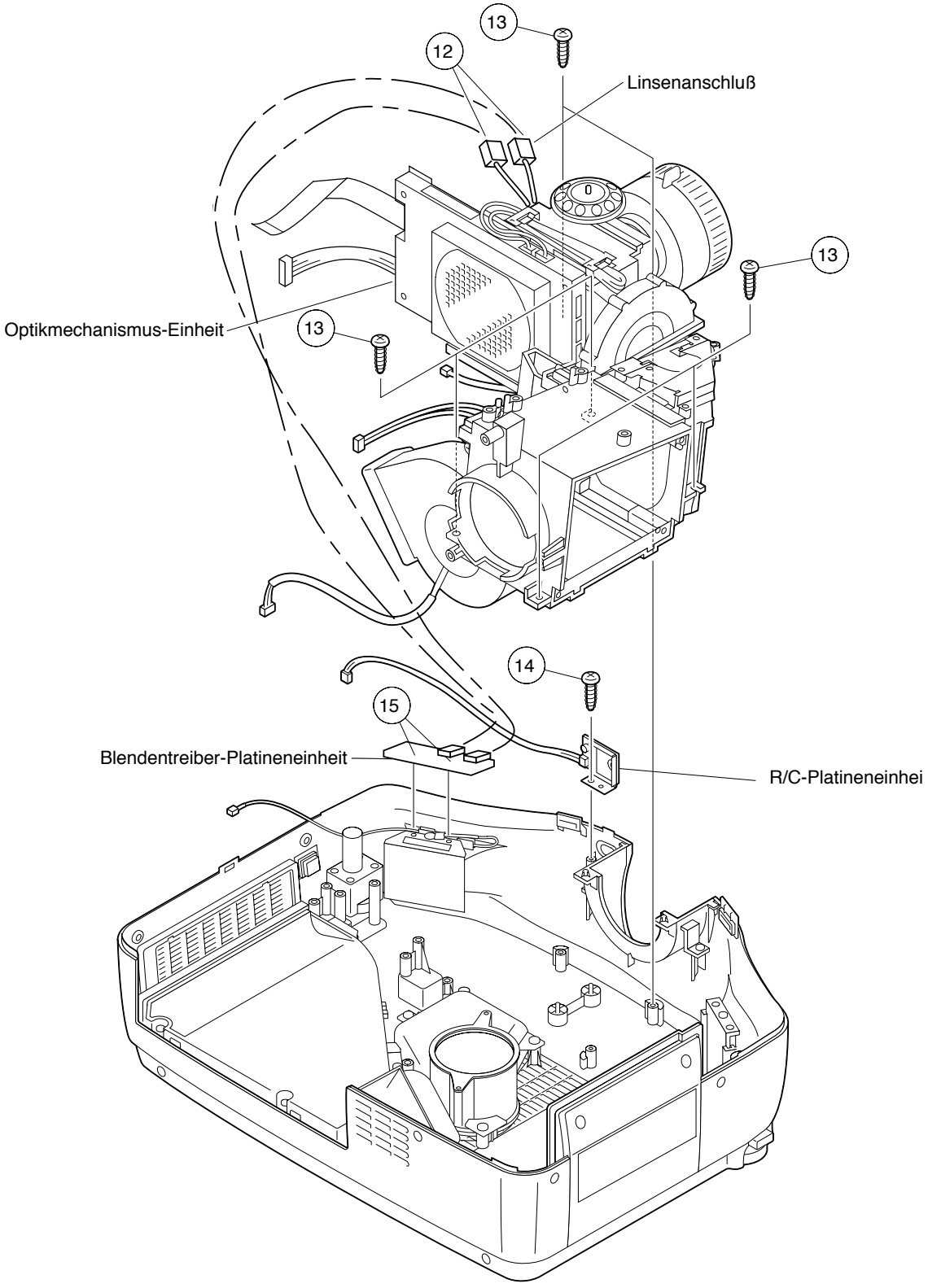
## 4. Entfernen der Netzteilabdeckung, der Netz-/Vorschaltgeräte-Einheit sowie des Netzteils.

9. Die sieben Schrauben losdrehen und die Netzteilabdeckung entfernen.
10-1. Die beiden Schrauben losdrehen.
10-2. Die vier weißen Halter entfernen, dann das Netzteil abnehmen.
11. Die vier Schrauben losdrehen, dann das Netzteil entfernen.



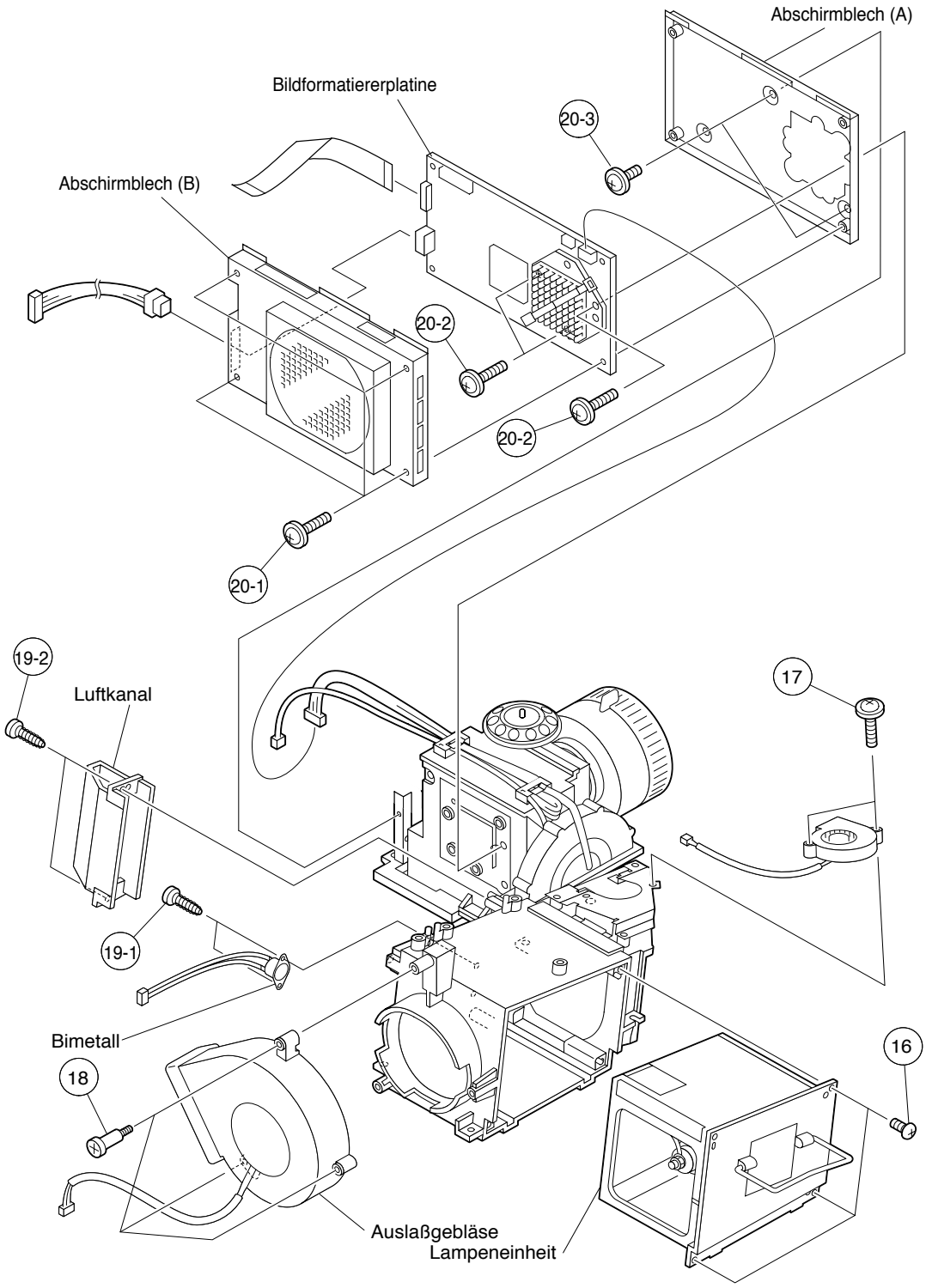
# 5. Ausbau der Optikmechanismus-Einheit und der R/C-Platineneinheit

12. Die Linsenanschlüsse aus der Blendentreiber-Platineneinheit trennen.
13. Die sechs Schrauben losdrehen und die Optikmechanismus-Einheit entfernen.
14. Die Schraube losdrehen und die R/C-Platineneinheit entfernen.
15. Die beiden Steckverbinder losdrehen und die Blendentreiber-Platineneinheit entfernen.



# 6. Ausbau von Lampeneinheit, Farbeinstellscheiben-Gebläse, Auslaßgebläse, Luftkanal, Abschirmblech und Bildformatiererplatine

16. Die drei Schrauben losdrehen und die Lampeneinheit entfernen.
17. Die beiden Schrauben losdrehen und das Farbeinstellscheiben-Gebläse entfernen.
18. Die drei Schrauben losdrehen und das Auslaßgebläse entfernen.
19-1. Die beiden Schrauben losdrehen und das Bimetall entfernen.
19-2. Die beiden Schrauben losdrehen und den Luftkanal entfernen.
20-1. Die vier Schrauben lösen, dann die Abschirmplatte (B) abnehmen.
20-2. Die drei Schrauben losdrehen und die Bildformatiererplatine entfernen.
20-3. Die drei Schrauben losdrehen und das Abschirmblech (A) entfernen.

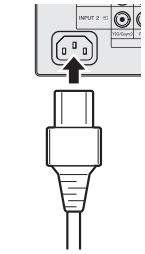


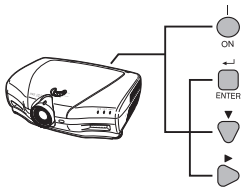
# Rückstellen des Lampenbetriebszeit-Timers

- **Rückstellung des Lampen-Timers**
  Den Lampen-Timer nach dem Lampenaustausch zurückzustellen.

**1 Das Netzkabel anschließen.**
- Das Netzkabel am Netzanschluss des Projektors anschließen.

**2 Den Lampen-Timer zurückstellen.**
- Während ENTER " und I auf dem Projektor gleichzeitig gedrückt wird, ON auf dem Projektor drücken.
- "LAMPE 0000H" erscheint und zeigt damit an, dass der Lampen-Timer zurückgestellt ist.






Info
- Stellen Sie sicher, dass Sie den Lampen-Timer nur nach dem Austausch der Lampe zurücksetzen. Wenn Sie den Lampen-Timer zurücksetzen und dieselbe Lampe weiterhin verwenden, könnte die Lampe beschädigt werden oder explodieren.

- Es wird empfohlen, die Lampe (separat im Handel erhältlich) nach etwa 1.900 kumulativen Betriebsstunden oder wenn eine maßgebliche Verschlechterung hinsichtlich der Bild- und Farbqualität wahrgenommen wird auszutauschen. Die Lampenbetriebszeit kann unter "Lamp.-Timer." im "Optionen"-Menü des Menübildschirmes eruiert werden.
- Hinsichtlich eines Austauschs der Lampe nehmen Sie bitte Kontakt zum nächsten autorisierten Sharp-Händler oder Kundendienstcenter auf.
- Je nach Umgebung, in der der Projektor verwendet wird, liegt die eigentliche Lampenwartungszeit unter 2.000 Stunden.

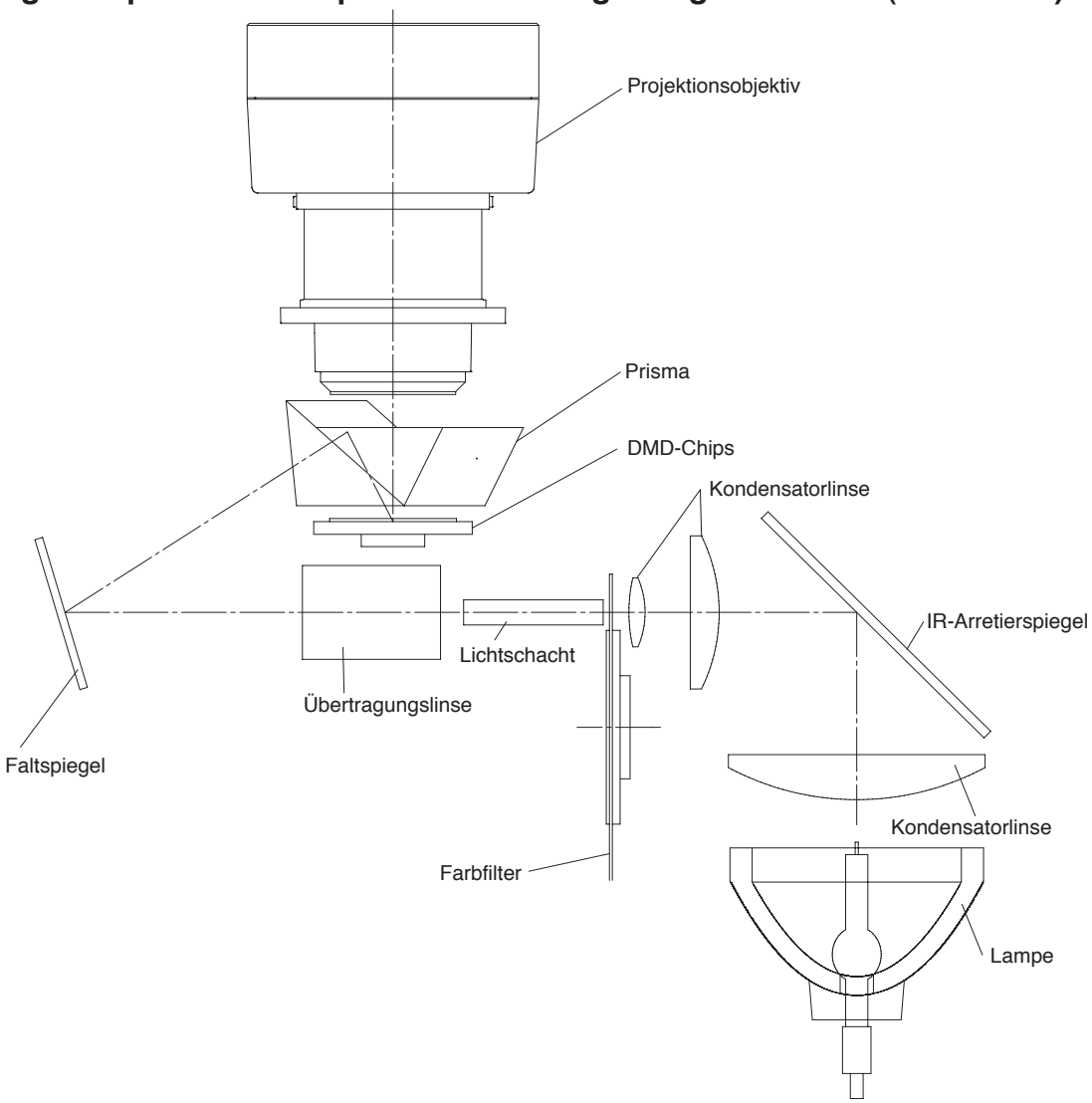
| Wartungsanzeige | | | Symptom | Problem | Abhilfe |
|---|---|---|---|---|---|
| Temperatur-warn-Anzeige | Normal | Unnormal | Die Temperatur im Inneren des Gerätes ist zu hoch. | • Belüftungsöffnungen blockiert. | • Den Projektor an einem besser belüfteten Ort aufstellen. |
| | Aus | Rot ein/ Strom aus | | • Kühlventilator beschädigt<br>• Interne Schaltkreise beschädigt | • Den Projektor einem von Sharp autorisierten Händler für Projektoren oder dem Kundendienst. |
| | | | | • Luftfilter verstopft | • Die Lüftungsöffnungen entsprechend beschriebenen Verfahren reinigen. |
| Lampen-Anzeige | Blau ein* (Blau blinkt, wenn die Lampe aktiviert ist.) | Rot ein/ Strom aus | Die Lampe leuchtet nicht. | • Ausgebrannte Lampe<br>• Lampen-Schaltkreis beschädigt | • Ersetzen Sie die Lampe.<br>• Den Projektor einem von Sharp autorisierten Händler für Projektoren oder dem Kundendienst.<br>• Lassen Sie beim Austausch der Lampe bitte die nötige Vorsicht walten. |
| | | Rot blinkt | Lampenaustauschzeit | • Die Lampenbetriebszeit hat 1.900 Stunden überschritten. | |
| Netz-Anzeige | Blau eingeschaltet* / Rot eingeschaltet | Rot blinkt | Die Netz-Anzeige blinkt bei eingeschaltetem Projektor rot auf. | • Die Auslass-Lüftungsöffnung ist offen. | • Die Abdeckung sicher anbringen.<br>• Wenn die Netzanzeige selbst bei sicher angebrachter Auslass-Lüftungsöffnung blinkt, hinsichtlich einer Abhilfe bitte Kontakt zum nächsten autorisierten Sharp-Händler oder Kundendienstcenter aufnehmen. |

* Wenn die Funktion “LED” auf “AUS” eingestellt ist, ist die Blautönung ausgeschaltet.

| Symptom | Problem | Abhilfe |
|---|---|---|
| Die Lampenaustausch-Anzeige leuchtet rot auf und "LAMP." und " ⧈ " blinken gelb in der unteren linken Ecke der Bildwand. | • Die Lampe wurde über 1.900 Stunden verwendet. | • Einen Austauschlampen-Satz (Lampe/Käfigmodul) des gegenwärtigen Typs BQC-XVZ100005 beim nächsten von Sharp autorisierten Händler für Projektoren oder beim Kundendienst kaufen.<br>• Die Lampe austauschen. Sie können die Lampe auch bei einem von Sharp autorisierten Händler für Projektoren oder beim Kundendienst austauschen lassen. |
| Eine sichtbare Verschlechterung der Bild- und Farbqualität tritt auf. | | |
| Das Gerät wird automatisch ausgeschaltet und der Projektor auf Betriebsbereitschaft geschaltet. | • Die Lampe wurde über 2.000 Stunden verwendet. | |
| "LAMP." und " ⧈ " blinken rot in der unteren linken Ecke der Bildwand und das Gerät wird automatisch ausgeschaltet. | | |

# Beschreibung der Optik-Einheit

**Anordnung der optischen Komponenten und zugehörigen Bauteile (Draufsicht)**

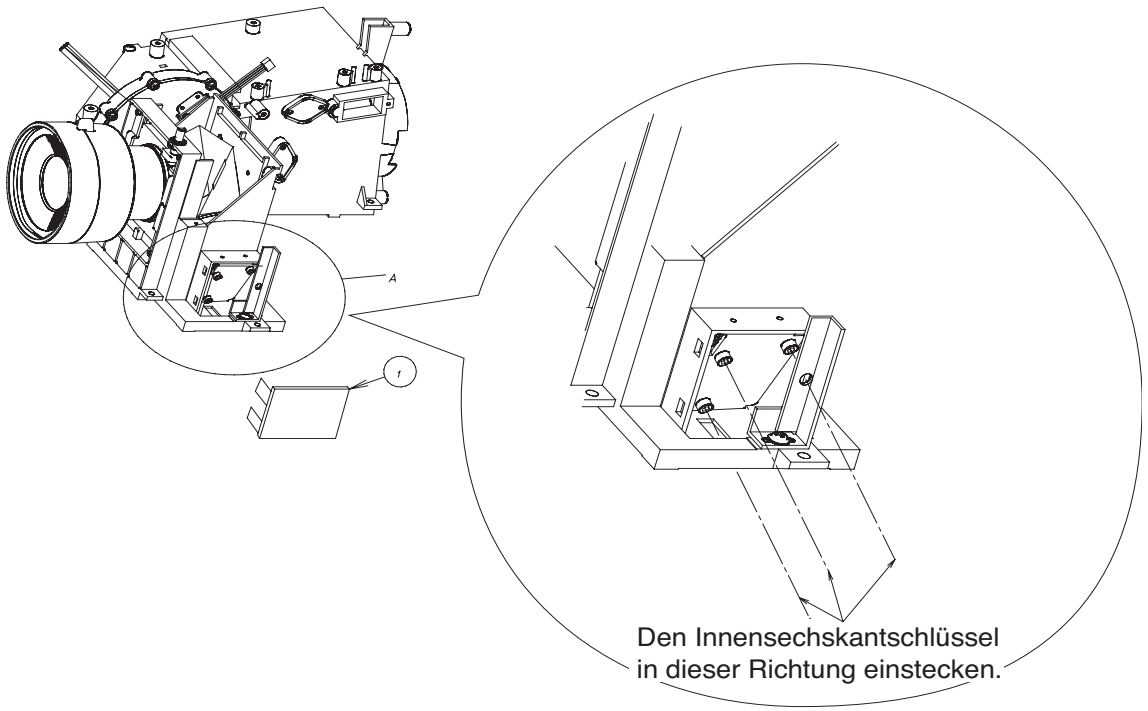



| Gegenstand | Beschreibung |
|---|---|
| ① Lampe | Gleichstrom-Lampe mit Parabolreflektor |
| ② Kondensatorlinse, IR-Arretierspiegel und Lichtschacht | Die Kondensatorlinse führt das Licht von der Lampe zur Endoberfläche des Lichtschachts via dem IR-Arretierspiegel.<br>Der IR-Arretierspiegel wird in diese Einheit eingelegt, um den Wärmeüberschuß von der Lampenenergie zu eliminieren. |
| ③ Farbfilter | Das Farbfilter trennt das weiße Licht in die drei Spektralfarben R, G und B.<br>Um die Übergangszeit zwischen den Farbfiltern richtig zu ermitteln, sollte ein Photosensor in das Gerät eingesetzt werden.<br>Die max. Rotationsgeschwindigkeit beträgt 9000 U/min. |
| ④ Übertragungslinse und Faltspiegel | Das Gerät leitet den Beleuchtungspunkt zum wirksamen Bereich des DMD-Chips. |
| ⑤ Prisma | Das Prisma leitet ebenfalls den Beleuchtungspunkt zum wirksamen Bereich des DMD-Chips. Gleichzeitig leitet es die Reflexionsstrahlen vom DMD-Chip zum Projektionsobjektiv. |
| ⑥ DMD-Chips | Der DMD-Chip schaltet jede Farbkomponente per Bildpunkt je nach der Eingangsquelle ein und aus. |
| ⑦ Projektionsobjektiv | Das Projektionsobjektiv vergrößert das Objekt und projiziert das von der DMD kommende Einfallslicht. |

## Einstellung der Spiegel

Einstellung des Anzeigebereichs am Bildschirm vornehmen, um Dunkelbereiche am äußeren Bildschirmrand zu vermeiden.

1. Die obere Abdeckung abnehmen, so daß die Optikeinheit sichtbar wird. Nur Weiß am Bildschirm anzeigen.
2. Die Abdeckung ① der Spiegeleinstellplatte an der Unterseite rechts vom Projektionsobjektiv entfernen.
3. Die drei Schrauben mit dem Spezial-Innensechskantschlüssel (9HPH10XL120) verstellen und so einstellen, daß keine Dunkelbereiche am Bildschirm auftreten.
4. Die Abdeckung ① der Spiegeleinstellplatte anbringen.
5. Die obere Abdeckung wieder befestigen.




Vergrößerung von Teil A

## Einstellen der hinteren Brennweite nach dem Auswechseln des Projektionsobjektivs

Hinweis: Ein Klebebandstreifen ist am Scharfeinstellring angebracht (mit dem Ersatz-Projektionsobjektiv mitgeliefert). Dieses Klebeband nicht entfernen, solange die Einstellung nicht abgeschlossen ist.

(1) Zwischen dem Gerät und der Leinwand ist ein Abstand von 2,4 m einzuhalten. Danach ist der Zoom-Knopf auf "wide end" einzustellen.
(2) Die Objektiveinstellung vornehmen, bis das Projektionsobjektiv das gleiche Niveau wie die Leinwandmitte erreicht hat.
(3) Die obere Abdeckung A der Optikeinheit hinter dem Projektionsobjektiv entfernen.
(4) Die vier Innensechskantschrauben B auf der Rückseite des Projektionsobjektivs losdrehen.
(5) Nun den Einstell-Schraubendreher (C) (9EVDRIVERZ9000) in das Loch D auf der Rückseite des Projektionsobjektivs einführen. Die Bildleinwandmitte scharf einstellen. (Empfohlen wird die Zuführung des SXGA-Signals für 1-Punkt-Weiß-Kreuzschraffurmuster oder 1-Punkt-Weißmuster auf schwarzem Hintergrund.)
(6) Die vier Innensechskantschrauben B auf ein Anzugsdrehmoment von 0,3 Nm (3,06 kg-cm) festziehen und danach Schrauben-Sicherungsmittel (Loctite) aufbringen.
(7) Nun das Klebeband vom Scharfeinstellring auf dem Projektionsobjektiv abziehen.
(8) Die obere Abdeckung A der Optikmechanismus-Einheit wieder aufsetzen. Schließlich die beiden Schrauben E eindrehen und Loctite auftragen.

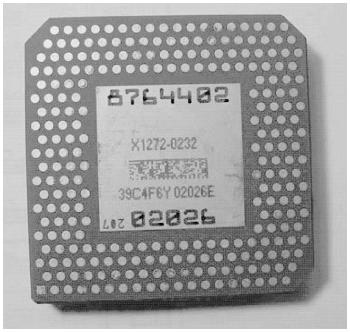
## Austausch von DMD oder Formatter-Einheit

DMD kann durch statische Elektrizität beschädigt werden. Bei der Arbeit ist ein Erdstreifen stets zu tragen.
Da der Kontakt des Interposers sehr klein ist, diesen sorgfältig behandeln.

## Montage von DMD

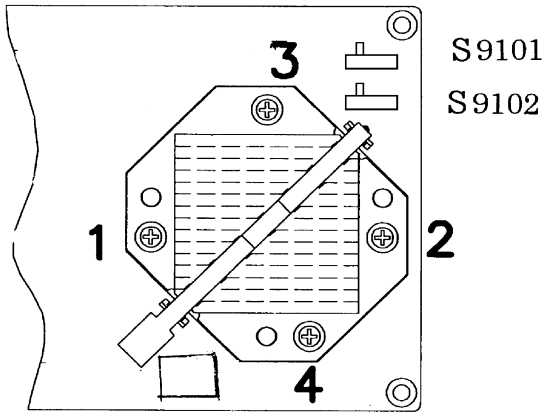
Überprüfung der binären DMD-Spannung

Das letzte Alphabet in der niedrigsten Zeile auf der Rückseite von DMD überprüfen, das montiert werden soll.(Beispiel: 02026E → Binäre Spannung "E")




## Einstellung der binären DMD-Spannung der Formatter-Einheit

S9101 und S9102 in die Position des Seidensiebdrucks auf der Platine setzen, der das gleiche Alphabet wie die binäre DMD-Spannung aufweist.

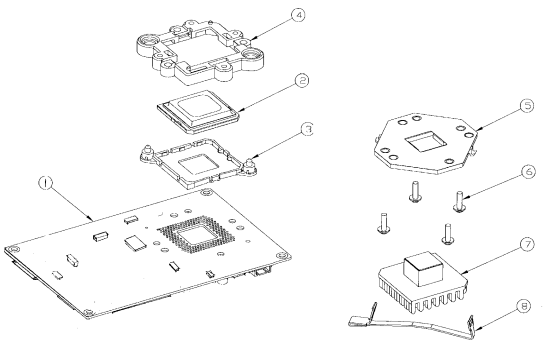



## DMD in den Interposer einsetzen.

Den Interposer und DMD mit Luft besprühen.
Während die Klauen des Interposers erweitert werden, DMD darin einsetzen.
Hinweis: Wenn DMD eingedrückt wird, wird der Interposer abgekratzt; Späne können zu einem schlechten Kontakt führen. Niemals DMD einzwingen.

## Montage von DMD an der Einheit

Verschmutzung vom Kontaktteil (Vergoldungsteil) der Platine mit Äthanol abwischen.
Den Interposer mit montiertem DMD auf die Einheitsplatine ausrichten, dann die Halterung daran anbringen.
Die Stützplatte von der anderen Seite auf die Einheitsplatine setzen, dann diese mit Schrauben befestigen.
Zu diesem Zeitpunkt die Schrauben leicht anziehen; danach diese diagonal nachziehen.
Anzugsdrehmoment: 1,13 N-m (11.5 kgfcm)
Die Kühlrippe montieren und mit der Klemme sichern.



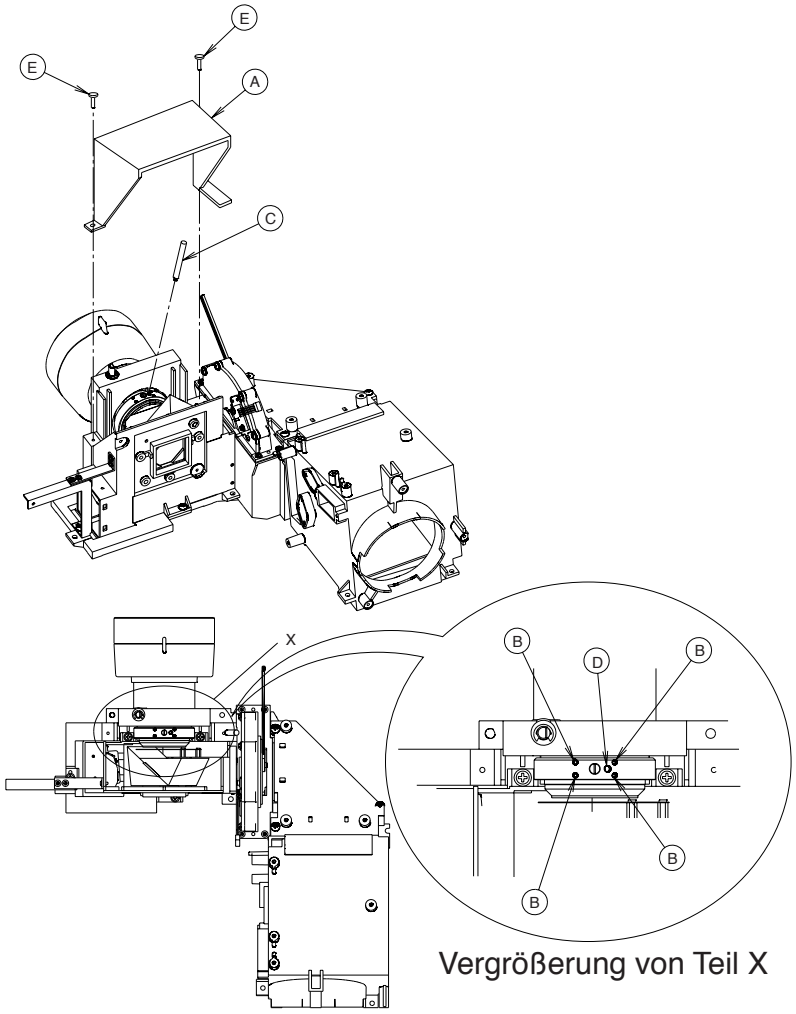
① Formatter-Einheit
② DMD
③ Interposer
④ Halterung
⑤ Stützplatte
⑥ Schraube (4 St.)
⑦ Kühlrippe
⑧ Klemme

## Wenn die DMD-Einheit ausgewechselt wurde

Hinweis: Der DMD-Chip und die Bildformatiererplatine werden zur gleichen Zeit geliefert. Es wird ausschließlich der DMD-Chip ausgewechselt.
Beziehen Sie sich beim Auswechseln der Bildformatiererplatine bitte auf den Abschnitt "AUSBAU DER WICHTIGSTEN BAUTEILE".

Die hintere Brennweite des Projektionsobjektivs braucht nicht eingestellt zu werden. Wenn die Brennpunkteinstellung jedoch unzufriedenstellend ist, muß die folgende Einstellung ausgeführt werden.

(1) Zwischen dem Gerät und der Leinwand ist ein Abstand von 2,4 m einzuhalten.
(2) Die Objektiveinstellung vornehmen, bis das Projektionsobjektiv das gleiche Niveau wie die Leinwandmitte erreicht hat.
(3) Die obere Abdeckung A der Optikeinheit hinter dem Projektionsobjektiv entfernen.
(4) Die vier Innensechskantschrauben B auf der Rückseite des Projektionsobjektivs losdrehen.
(5) Den Zoom-Knopf an der Vorderseite des Projektionsobjektivs auf „tele end“ einstellen und eine gute Scharfeinstellung sicherstellen.
(6) Danach ist der Zoom-Knopf an der Vorderseite des Projektionsobjektivs auf „wide end“ einzustellen.
(7) Nun den Einstell-Schraubendreher (C) (9EVDRIVERZ9000) in das Loch D auf der Rückseite des Projektionsobjektivs einführen. Die Bildleinwandmitte scharf einstellen. (Empfohlen wird die Zuführung des SXGA-Signals für 1-Punkt-Weiß-Kreuzschraffurmuster oder 1-Punkt-Weißmuster auf schwarzem Hintergrund.)
(8) Den Zoom-Knopf von „wide end“ auf „tele end“ zurückziehen und feststellen, ob die Scharfeinstellung sichergestellt ist. Falls dies nicht der Fall ist, sind die Schritte (5), (6) und (7) solange zu wiederholen, bis die höchste Schärfe erzielt ist.
(9) Die vier Innensechskantschrauben B auf ein Anzugsdrehmoment von 0,3 Nm (3,06 kg-cm) festziehen und danach Schrauben-Sicherungsmittel (Loctite) aufbringen.
(10) Die obere Abdeckung A der Optikmechanismus-Einheit wieder aufsetzen. Schließlich die beiden Schrauben E eindrehen und Loctite auftragen.




Vergrößerung von Teil X

# ELEKTRISCHE EINSTELLUNGEN

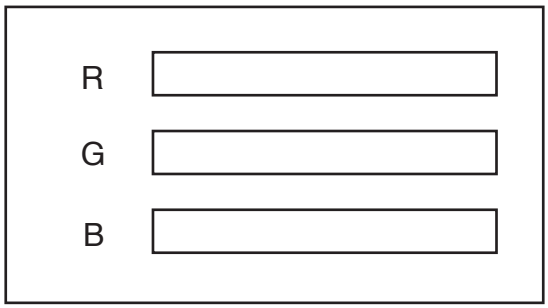
Beim Versand vom Werk ist das Gerät optimal eingestellt. Wenn der Bildschirm von dem richtigen Position abweicht, oder nachdem Teile ausgewechselt worden sind, ist das Gerät folgendermaßen einzustellen.

- Die Stromversorgung einschalten (Lampe leuchtet auf), und das Gerät für 15 Minuten altern.
- SW2002 (Taktschalter) auf dem Hauptgerät drücken, um in den Einstellprozeßmodus umzuschalten.
- Mit Hilfe der Taste DOWN (▼) oder UP (▲) auf der Fernbedienung eine einzustellende Gruppe auswählen; danach die Taste ENTER (↵) drücken, um zum Einstellgegenstand weiterzugehen.
- Mit Hilfe der Taste DOWN (▼) oder UP (▲) auf der Fernbedienung einen Einstellgegenstand auswählen.
- Zur Einstellung die Taste LEFT (◀) oder RIGHT (▶) verwenden.
- Mit Hilfe der Taste UNDO (↰) vom Einstellgegenstand zur Einstellgruppe zurückkehren.
- Um den Einstellprozeßmodus zu beenden, die Werkseinstellung am Ende der Einstellung ausführen. Wenn die Werkseinstellung nicht vorgenommen wird, werden die Einstellungen nicht ausgeführt.

<Hinweise für die Einstellung>

1) Initialisierung und Werkseinstellung
   Wenn die Initialisierung S2 oder Werkseinstellung S5 von EEPROM durchgeführt wird, ist etwas Zeit nötig, um die daten zu schreiben.
   Wird die Initialisierung S2 oder Werkseinstellung S5 von EEPROM ausgeführt, verschwindet die OSD-Anzeige des Einstellprozeßmodus, und INPUT1 wird nach 15 Sekunden gewählt. Da die OSD-Anzeige des Geräts 2 oder des Geräts 5 erscheint, niemals die Stromversorgung ausschalten, bis diese Anzeige erscheint.
2) Automatische Einstellung
   Während der automatischen Einstellung ist das Gerät nicht in den Kein-Signal-Status zu bringen. (Niemals aufhören, das Signal zu senden.)
   Anderenfalls können die Einstelldaten geändert oder gelöscht werden.

| Nr. | Einstellgegenstand | Einstellbedingungen | Einstellverfahren |
|---|---|---|---|
| **1** | **EEPROM wird initialisiert** | 1. Den Netzschalter einschalten und das Gerät für ca. 15 Minuten vorwärmen lassen. (Sicherstellen, daß die Kontrollampe aufleuchtet.) | 1. SW2002 drücken, um in den Prozeßmodus umzuschalten; danach S2 des Menüs SSS ausführen.<br>Durch S2 werden alle außer der PC-Platine initialisiert.<br>SW2002 erneut drücken, um in den Prozeßmodus umzuschalten; danach S5 des Menüs SSS ausführen.<br>Hinweis: Da die PC-Schnittstelleneinheit durch S1 initialisiert wird, niemals S1 ausführen.<br>Die PC-Schnittstelleneinheit ist schon eingestellt.<br>Wenn die PC-Schnittstelleneinheit eingestellt werden muß (wenn S1 versehentlich ausgeführt wurde), diese nach dem Abschnitt "PC-Schnittstellen-Einstellverfahren" auf der letzten Seite einstellen. |
| **2-1** | **A/D (RGB) Überprüfung der G-Helligkeit** | 1. Die nachfolgende Gruppe bzw. die Positionen wählen:<br>Gruppe: A/D (RGB)<br>Position: G-BRIGHT | 1. SW2002 drücken, um in den Prozeßmodus umzuschalten; danach das Menü A/D (RGB) wählen, um den Wert von G-BRIGHT abzulesen.<br>2. Die UNDO-Taste auf der Fernbedienung drücken, um das Menü A/D (RGB) zu beenden. |

| Nr. | Einstellgegenstand | Einstellbedingungen | Einstellverfahren |
|---|---|---|---|
| 2-2 | **A/D (COMP) Einstellung der G- Helligkeit Überprüfung des CR-Offsets Überprüfung des CB-Offsets** | 1. Ein Weißmuster-Farbdifferenzsignal mit 0 % Y (Helligkeit) und 0 % CB/CR eingeben. INPUT5<br>2. Die nachfolgende Gruppe bzw. die Positionen wählen:<br>Gruppe: A/D (COMP)<br>Position: G-BRIGHT<br>CR OFFSET<br>CB OFFSET | 1. Das Menü A/D (COMP) wählen, und G-BRIGHT auf den Wert von G-BRIGHT für A/D (RGB) einstellen.<br>2. Überprüfen, daß CB-OFFSET und CR-OFFSET auf 20 eingestellt sind.<br>3. Die UNDO-Taste auf der Fernbedienung drücken, um das Menü A/D (COMP) zu beenden. |
| 3 | **Einstellung des Farbeinstell-scheiben-Indexes** | 1. Das Einstellmustersignal für den Farbeinstell-scheiben-Index zuführen. INPUT5<br>2. Die nachfolgende Gruppe bzw. die Positionen wählen:<br>Gruppe: DLP<br>Position: CW INDEX | 1. CW-INDEX aus dem Menü DLP wählen.<br>2. Die Einstellung so vornehmen, daß das R-, G- und B-Lampenfarbtonmuster glatt und störungsfrei erscheint.<br>  |
| 4 | **Weißabgleich/ Farbhelligkeits-einstellung** | Siehe unter "Verfahren der Farbhelligkeitseinstellung" (Seite 81). | |
| 5 | **Einstellung der Video-Horizontal-mitte** | 1. Ein NTSC-Monoskop-mustersignal zuführen. INPUT4<br>2. Die nachfolgende Gruppe bzw. die Positionen wählen:<br>Gruppe: VIDEO 1<br>Position: NTSC-H | 1. NTSC-H aus dem Menü VIDEO1 wählen.<br>2. So einstellen, daß der linke und der rechte Overscan keinen Unterschied aufweisen. |
| 6 | **Videohelligkeit/ Kontrast-einstellung** | 1. Das NTSC 100% Fenster-Mustersignal einspeisen.<br>2. Die nachfolgende Gruppe bzw. die Positionen wählen:<br>Gruppe: VIDEO1<br>Position: AUTO | 1. Nach dem Signaleingang AUTO aus dem Menü VIDEO1 wählen, und die automatische Einstellung wird durch Drücken der ENTER-Taste auf der Fernbedienung durchgeführt. |
| 7 | **Einstellung des Video-Farbtons** | 1. Geteiltes Farbbalkensignal an INPUT 4 eingeben.<br>2. Die nachfolgende Gruppe bzw. die Positionen wählen:<br>Gruppe: VIDEO1<br>Position: TINT | 1. Das Menü VIDEO1 wählen, um den Wert von TINT zu überprüfen.<br>Fixierte Einstellung: 120 |

| Nr. | Einstellgegenstand | Einstellbedingungen | Einstellverfahren |
|---|---|---|---|
| 8 | **Einstellung der NTSC-Farbsättigung** | 1. Geteiltes Farbbalkensignal an INPUT 4 eingeben.<br>2. Die nachfolgende Gruppe bzw. die Positionen wählen:<br>Gruppe: VIDEO1<br>Position: N-COLOR | 1. Das Menü VIDEO1 wählen, um den Wert von N-COLOR zu überprüfen.<br>Fixierte Einstellung: 100 |
| 9 | **Einstellung der PAL-Farbsättigung** | 1. Das PAL-Farbbalkensignal zuführen.<br>INPUT4<br>2. Die nachfolgende Gruppe bzw. die Positionen wählen:<br>Gruppe: VIDEO1<br>Position: P-COLOR | 1. Das Menü VIDEO1 wählen, um den Wert von P-COLOR zu überprüfen.<br>Fixierte Einstellung: 94 |
| 10 | **Einstellung der SECAM-Farbsättigung** | 1. Das SECAM-Farbbalkensignal zuführen.<br>INPUT4<br>2. Die nachfolgende Gruppe bzw. die Positionen wählen:<br>Gruppe: VIDEO1<br>Position: S-COLOR | 1. Das Menü VIDEO1 wählen, um den Wert von S-COLOR zu überprüfen.<br>Fixed setting: 90 |
| 11 | **Überprüfung und Nachstellung der Weißbalance** | 1. Einstellbedingungen in Punkt 4 nutzen. | Überprüfen, daß keine Abweichung des Weißabgleichs vorhanden ist. |
| 12 | **Überprüfung der Farbleistung** | 1. Den Farbbalken in INPUT4 eingeben.<br>2. Die nachfolgende Gruppe bzw. die Positionen wählen:<br>Gruppe: LINE<br>Position: L1 | 1. L1 aus dem Prozeßmodus LINE wählen, und die ENTER-Taste auf der Fernbedienung drücken.<br>Die Farbdichte (Color) und den Farbton (Tint) überprüfen. |
| 13 | **Überprüfung der Videoleistung** | 1. Das Monoskopmustersignal zuführen.<br>INPUT4<br>2. Die nachfolgende Gruppe bzw. die Positionen wählen:<br>Gruppe: LINE<br>Position: L2 | 1. L2 aus dem Prozeßmodus LINE wählen, und die ENTER-Taste auf der Fernbedienung drücken.<br>Die Leistung von Bild, Helligkeit und Schärfe überprüfen. |

<table>
<tr><th>Nr.</th><th>Einstellgegenstand</th><th>Einstellbedingungen</th><th>Einstellverfahren</th></tr>
<tr><td>14</td><td>Überprüfung der RGB-Leistungswerte</td><td>1. Das RGB-Signal zuführen.<br>INPUT5<br>2. Die nachfolgende Gruppe bzw. die Positionen wählen:<br>Gruppe: LINE<br>Position: L4</td><td>1. L4 aus dem Prozeßmodus LINE wählen, und die ENTER-Taste auf der Fernbedienung drücken.<br>Die Leistung von Bild, Helligkeit, Takt, Phase, Horizontal- und Vertikalposition überprüfen. überprüfen.</td></tr>
<tr><td>15</td><td>Leistung des Ausschalt-Timers</td><td>1. Den Kein-Signal-Status herstellen.<br>2. Gruppe: LINE<br>Position: OFF</td><td>1. OFF aus dem Prozeßmodus LINE wählen, und die ENTER-Taste auf der Fernbedienung drücken.<br>Die 5-Minuten-Anzeige des Off-Timers erscheint.<br>Überprüfen, daß die Stromversorgung ungefähr 6 Sekunden nach dem Erscheinen der Anzeige abgeschaltet wird.</td></tr>
<tr><td>16</td><td>Auslieferungseinstellungen</td><td>1. Die nachfolgende Gruppe bzw. die Positionen wählen:<br>Gruppe: SSS<br>Position: S4 (Nordamerica)<br>S3 (Europa)</td><td>1. Folgende Einstellungen sind vorzunehmen:
<table>
<tr><th>Verkaufsbereich</th><th>Einstellverfahren</th><th>Fernbedienungs-Einstellung</th></tr>
<tr><td>Nordamerika</td><td>S4</td><td>Werkseinstellung 4</td></tr>
<tr><td>Europa</td><td>S3</td><td>Werkseinstellung 3</td></tr>
</table></td></tr>
<tr><td>17</td><td>Überprüfung der Auto-Sync-Leistungswerte</td><td>1. Das Phasenprüfmuster des VGA/S-VGA/XGA-Signals in INPUT5 eingeben.</td><td>Die AUTO SYNC-Taste auf der Fernbedienung drücken.<br>Überprüfen, daß die Uhr, Phase, H-POS und V-POS automatisch eingestellt werden können.</td></tr>
<tr><td>18</td><td>Prüfung von HTPC720P</td><td>INPUT5 (DVI-I-Anschluß) die folgenden Signale senden.<br>1. Farbbalken-signals<br>2. Grauskalen-signals<br>3. SMPTERP-133-Signals</td><td>Sicherstellen, dass das Schirmbild einwandfrei ist.</td></tr>
<tr><td>19</td><td>Überprüfung der Thermistorleistung</td><td>1. Den Thermistor mit einem Haartrockner erwärmen.</td><td>1. Sicherstellen, dass die Temperatur angezeigt wird.</td></tr>
</table>

# Einstellung der PC-Platine

**1. Initialisierung des EEPROM**

1) Den Schalter SW2002 drücken, um den Prozeßmodus aufzurufen.
2) Den S1-Befehl am SSS-Menü ausführen. (Der S1-Befehl dient dazu, die Platine alleine zu initialisieren. Der S2-Befehl darf allerdings nicht eingegeben werden, da hierdurch auch alle anderen Einstelldaten der Platine initialisiert werden.)

**2. Einstellung des Eingangssignalpegels**

2.1 Vorbereiten des Oszilloskops
Das Oszilloskop auf einen Bereich zwischen 1 V/div. und 5 μs/div. einstellen.

2.2 Anschließen der PC-Schnittstelle

1) Den Analogausgang (Signalgenerator) und den DVI-1-Steckverbinder (INPUT 5 am Projektor) über das Kabel (DSUB-DVI) verbinden.
   Eingangswähler INPUT SELECT des Projektors auf INPUT 5 stellen (Analog-RGB im Menü wählen).
2) Den Signalgenerator auf den XGA-Modus stellen (1024 x 768, 60 Hz, 32 Farbtöne). Die Ausgangsamplitude zwischen Schwarz- und Weißpegel auf 700 mVs-s (Abschluß mit 75-Ohm-Impedanz) einstellen.
3) Die Stromversorgung einschalten.

2.3 Einstellung von A/D (RGB)

1) SW2002 drücken, um in den Prozeßmodus umzuschalten.
2) AD-AUTO aus dem Menü A/D (RGB) wählen.
3) Die ENTER-Taste auf der Fernbedienung drücken. Die automatische Einstellung wird vorgenommen.
4) Die UNDO-Taste auf der Fernbedienung drücken, um das Menü A/D (RGB) zu beenden.

2.4. Einstellung von A/D (COMP)

1) Das Menü A/D (COMP) wählen.
2) G-BRIGHT auf den Wert von G-BRIGHT für A/D (RGB) einstellen.
3) CB-OFFSET auf 20 einstellen.
4) CR-OFFSET auf 20 einstellen.
5) Die UNDO-Taste auf der Fernbedienung drücken, um das Menü A/D (COMP) zu beenden.

2.5. Einstellung des Farbradindex

1) Das Muster zum Einstellen des Farbradindex in INPUT5 eingeben.
   (Siehe "3. Einstellung des Farbradindex" im Abschnitt "Einstellverfahren der einzelnen Teile".)
2) CW INDEX aus dem Menü DLP wählen.
3) So einstellen, daß die Lampenabstufungsmuster von R, G und B ohne Rauschen glatt sind.
4) Die UNDO-Taste auf der Fernbedienung drücken, um das Menü DLP zu beenden.

2.6. S5 aus dem Menü SSS wählen, und die ENTER-Taste auf der Fernbedienung drücken.
Überprüfen, daß die OSD-Anzeige des Geräts 5 erscheint.

# Verfahren der Farbhelligkeitseinstellung

**Einstellung in den folgenden beiden Schritten**

I Einstellbedingungen
1. Einstellgegenstand: Prozeßmodus, Menü DLP
   GAMMA
   R-GAIN, G-GAIN, B-GAIN
2. Eingangssignal: Komponenten-Video-75%-Weißsignal
   ① Mit dem Komponenten-Video-100%-Weißsignal den Ausgang auf 0,7 ± 0,05 Vp-p (ausschließlich dem Synchronteil). (Das Synchronsignal ist 0,3 Vp-p.)
   ② Den Bildsignalausgang auf 75% reduzieren.
   ③ Das Signal in INPUT5 (DVI-I-Anschluß) eingeben.
3. Zieleinstellchromatizität
   x = 0,290 ± 0,005
   y = 0,311 ± 0,005 (Farbtemperatur: 8500K, +6UV)

II Einstellverfahren
1. GAMMA aus dem Menü DLP wählen, und den wert auf "6" einstellen. (Anfangswert = 6)
2. R-GAIN, G-GAIN und B-GAIN auf "95" einstellen. (Anfangswert = 95)
3. Hintergrundeinstellung
   ① Auf eine 40-Zoll-Leinwand projizieren, um die Chromatizität in der Mitte mit einem Farbmesser zu beobachten.
   ② G-GAIN auf 95 festsetzen.
   ③ Mit Hilfe von B-GAIN die x- und y-Werte auf die Zieleinstellchromatizität einstellen. Der Höchste Einstellwert ist 115.
   ④ Mit Hilfe von R-GAIN die x- und y-Werte auf die Zieleinstellchromatizität einstellen. Der Höchste Einstellwert ist 115.
   Wenn der x-Wert beim R-GAIN-Wert von 115 nicht eingestellt werden kann,
      1) R-GAIN reduzieren und auf x = 0,290 einstellen.
      2) G-GAIN reduzieren und auf x = 0,311 einstellen.
   ⑤ Überprüfen, daß die mittlere Abstufung nicht erheblich abweicht.
4. Die UNDO-Taste auf der Fernbedienung drücken, um das Menü DLP zu beenden.

## Prozeßmenü 1

| Gruppe | Untergruppe | Gegenstand |
|---|---|---|
| Adjust PC Image | A/D (RGB) | R-BRIGHT |
| | | G-BRIGHT |
| | | B-BRIGHT |
| | | R-D |
| | | B-D |
| | | G-D |
| | | AD-AUTO |
| | A/D (COMP) | G-BRIGHT |
| | | CB-OFFSET |
| | | CR-OFFSET |
| | | AD AUTO |
| Adjust HDDE formatter | DLP | CW-INDEX |
| | | DLP-GAMMA |
| | | R-BRIGHT |
| | | G-BRIGHT |
| | | B-BRIGHT |
| | | R-GAIN |
| | | G-GAIN |
| | | B-GAIN |
| Adjust VIDEO Image | VIDEO1 | NTSC-H |
| | | PICTURE |
| | | BRIGHT |
| | | TINT |
| | | N-COLOR |
| | | P-COLOR |
| | | S-COLOR |
| | | SET UP |
| | | SET UP B |
| | | SET UP C |
| | | VIDEO-AUTO |
| | VIDEO2 | PEAK FIL |
| | | PEAK GAIN |
| | | PEAK COR |
| | | N358 DLY |
| | | N433 DLY |
| | | PAL DLY |
| | | SECAM DLY |
| Process mode | LINE | L1 |
| | | L2 |
| | | L3 |
| | | L4 |
| | | OFF |
| | | TEMP OFF |
| | | SENSOR CHECK |

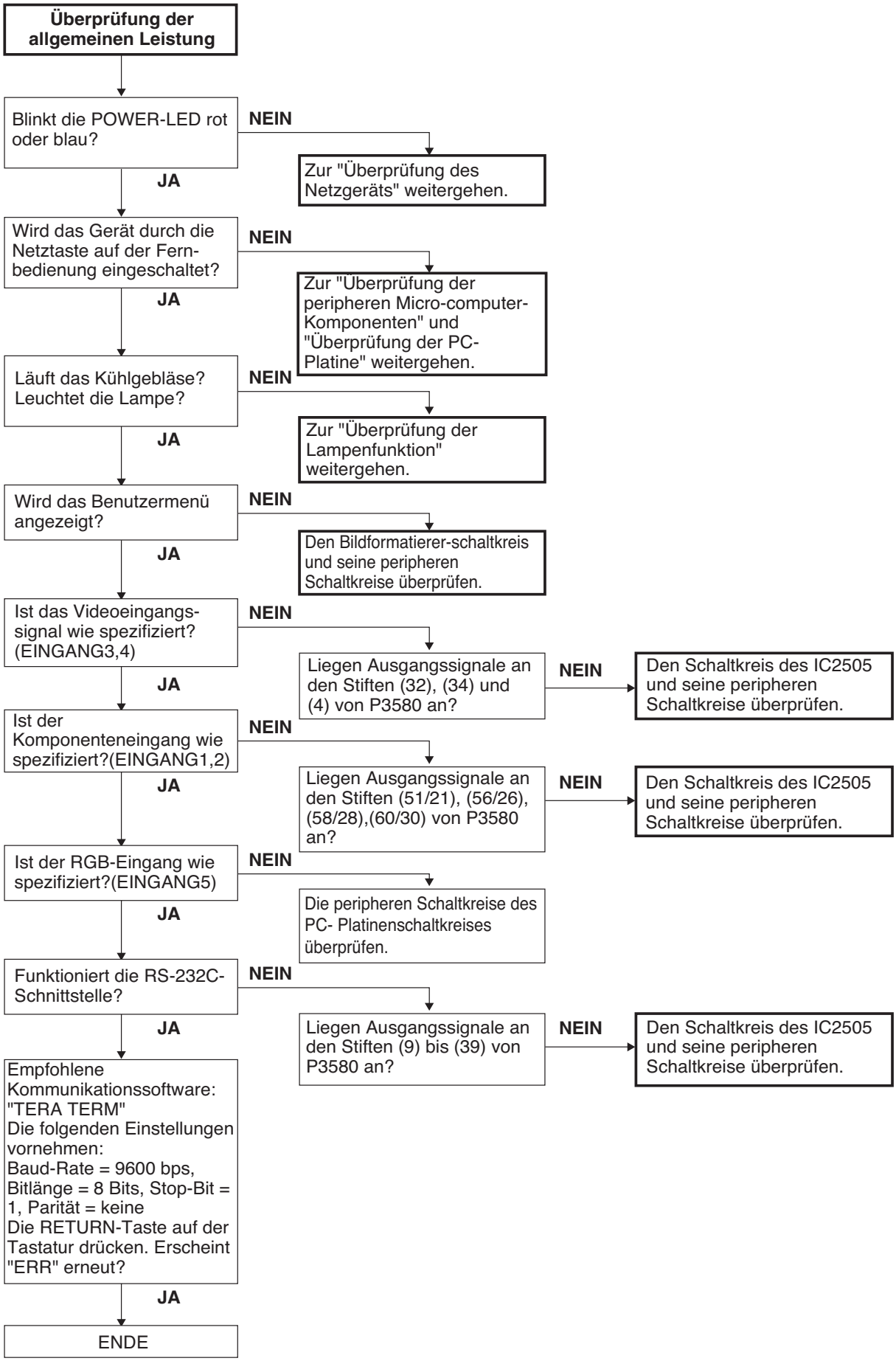
## Prozeßmenü 2

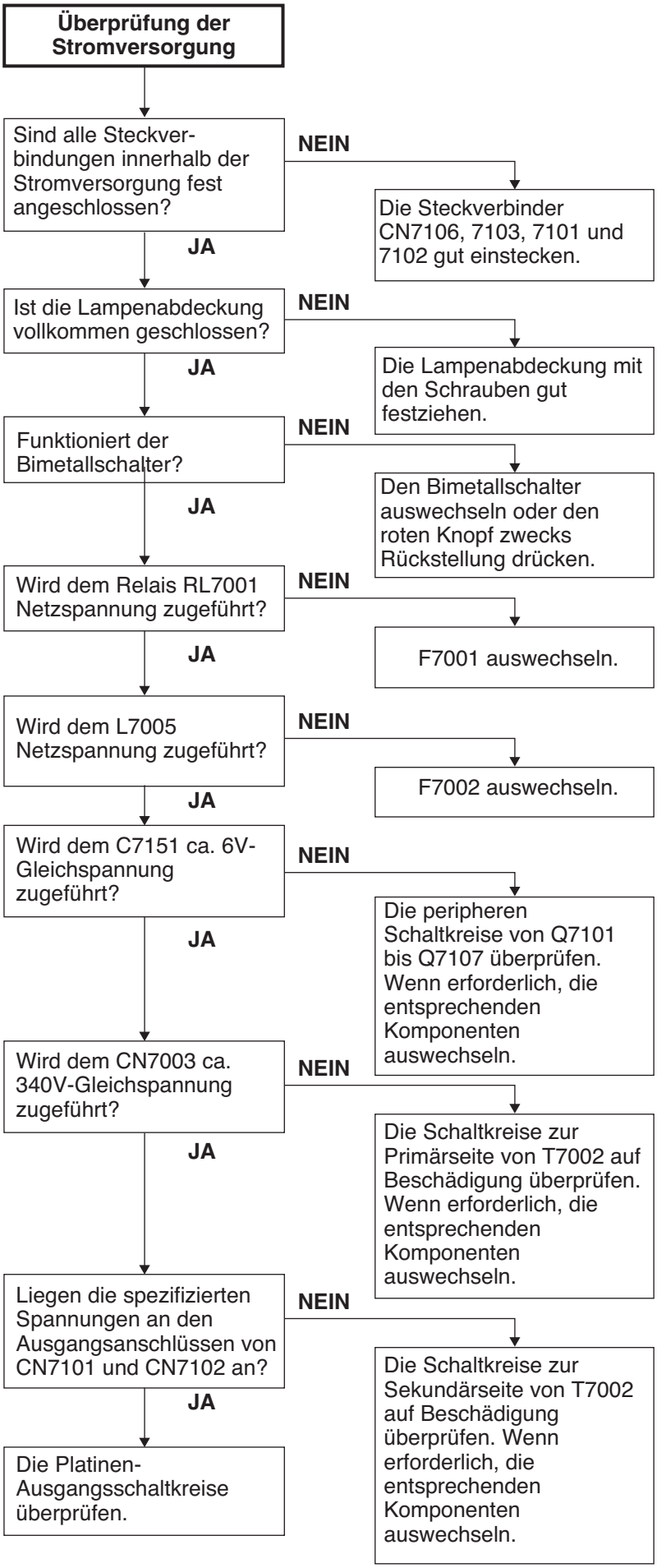
| Gruppe | Untergruppe | | Gegenstand |
|---|---|---|---|
| INITIAL SETTING | SSS | | TIME<br>S1<br>S2<br>S3<br>S4<br>S5<br>LAMP |
| Sample Pattern | PATTERN | | RGB<br>RGB(50)<br>CROSS<br>STEP<br>COLOR<br>CHR |
| Adjust CVIC | CVIC | PROGRESSSIVE | MODE<br>IP<br>MDSW<br>PTGSW<br>C-TESTSW<br>C-ILG-LY<br>C-MODE-LY<br>C-VE-LY |
| | | ENH-MODE(V) | TABLE<br>ENH-PLUS<br>ENH-GAIN<br>CUBIC |
| | | ENH-MODE(PC) | TABLE<br>ENH-PLUS<br>ENH-GAIN<br>CUBIC |
| | | NR | YNR-LEBEL<br>YNR-K<br>YNR-FSEL<br>YNR-FILSW<br>CNR-LEBEL<br>CNR-K<br>CNR-FSEL<br>CNR-FILSW |
| | | PTG | TBL-ON<br>TESTSW<br>ENABLE<br>MV-F<br>VDDYP |

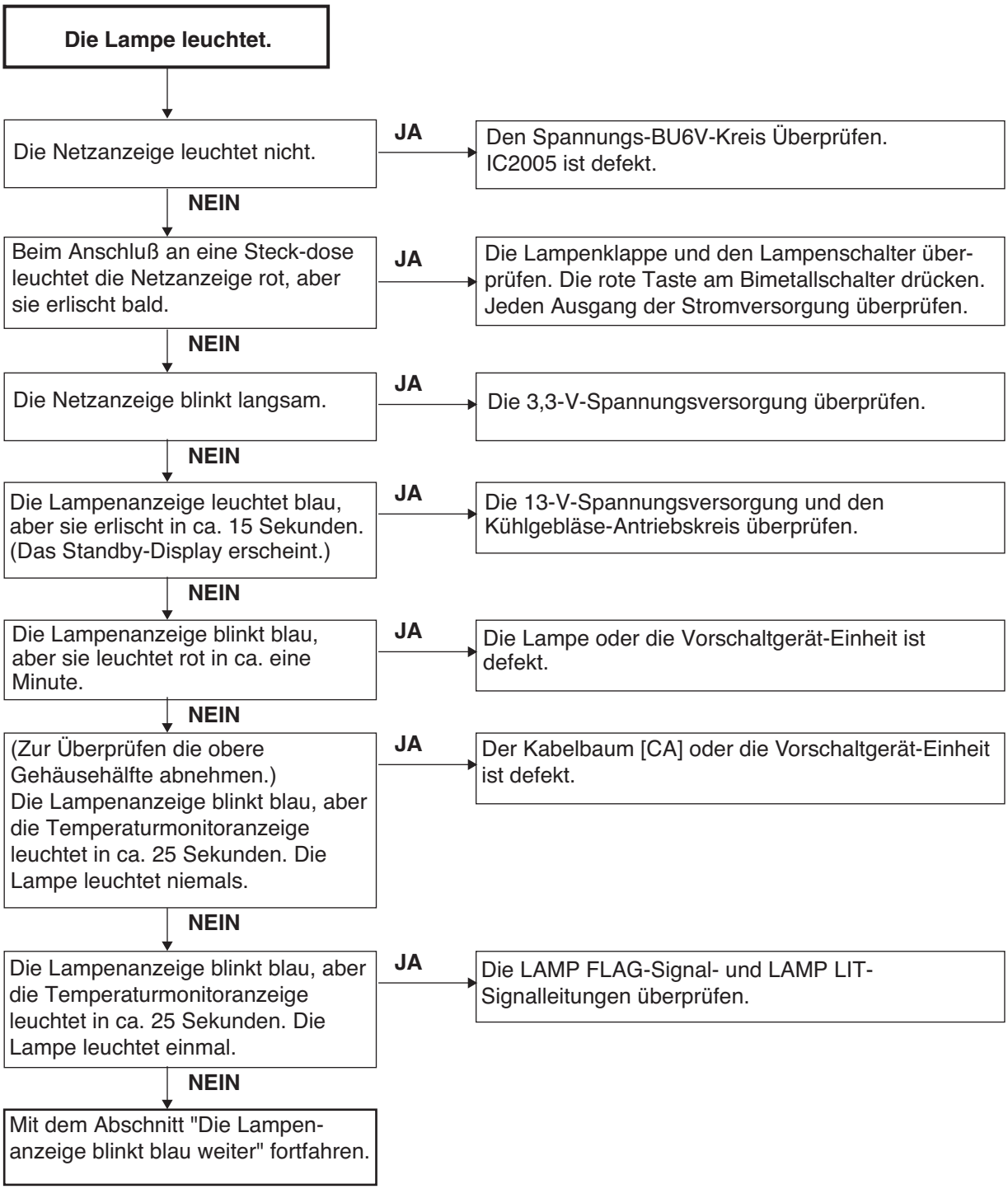
## Prozeßmenü 3

| Gruppe | Untergruppe | | Gegenstand |
|---|---|---|---|
| Adjust CVIC | CVIC | CMS-HUE | TABLE |
| | | | CMS-HUE-R |
| | | | CMS-HUE-Y |
| | | | CMS-HUE-G |
| | | | CMS-HUE-C |
| | | | CMS-HUE-B |
| | | | CMS-HUE-M |
| | | CMS-SAT | TABLE |
| | | | CMS-SAT-R |
| | | | CMS-SAT-Y |
| | | | CMS-SAT-G |
| | | | CMS-SAT-C |
| | | | CMS-SAT-B |
| | | | CMS-SAT-M |
| | | CMS-VAL | TABLE |
| | | | CMS-VAL-R |
| | | | CMS-VAL-Y |
| | | | CMS-VAL-G |
| | | | CMS-VAL-C |
| | | | CMS-VAL-B |
| | | | CMS-VAL-M |
| | | DEGAMMA | TABLE |
| | | GAMMA POS | R GAMMA |
| | | | G GAMMA |
| | | | B GAMMA |
| | | | R GAIN |
| | | | G GAIN |
| | | | B GAIN |
| | | | R OFFSET |
| | | | G OFFSET |
| | | | B OFFSET |
| Version Check etc. | | SPECIAL | IPL |
| | | | E2PROM |
| | | | ADR RD/WR |

# FEHLERSUCHTABELLE


Überprüfung der allgemeinen Leistung
Blinkt die POWER-LED rot oder blau?
NEIN
Zur "Überprüfung des Netzgeräts" weitergehen.
JA
Wird das Gerät durch die Netztaste auf der Fern-bedienung eingeschaltet?
NEIN
Zur "Überprüfung der peripheren Micro-computer-Komponenten" und "Überprüfung der PC-Platine" weitergehen.
JA
Läuft das Kühlgebläse? Leuchtet die Lampe?
NEIN
Zur "Überprüfung der Lampenfunktion" weitergehen.
JA
Wird das Benutzermenü angezeigt?
NEIN
Den Bildformatierer-schaltkreis und seine peripheren Schaltkreise überprüfen.
JA
Ist das Videoeingangs-signal wie spezifiziert? (EINGANG3,4)
NEIN
Liegen Ausgangssignale an den Stiften (32), (34) und (4) von P3580 an?
NEIN
Den Schaltkreis des IC2505 und seine peripheren Schaltkreise überprüfen.
JA
Ist der Komponenteneingang wie spezifiziert?(EINGANG1,2)
NEIN
Liegen Ausgangssignale an den Stiften (51/21), (56/26), (58/28),(60/30) von P3580 an?
NEIN
Den Schaltkreis des IC2505 und seine peripheren Schaltkreise überprüfen.
JA
Ist der RGB-Eingang wie spezifiziert?(EINGANG5)
NEIN
Die peripheren Schaltkreise des PC- Platinenschaltkreises überprüfen.
JA
Funktioniert die RS-232C-Schnittstelle?
NEIN
Liegen Ausgangssignale an den Stiften (9) bis (39) von P3580 an?
NEIN
Den Schaltkreis des IC2505 und seine peripheren Schaltkreise überprüfen.
JA
Empfohlene Kommunikationssoftware: "TERA TERM"
Die folgenden Einstellungen vornehmen:
Baud-Rate = 9600 bps, Bitlänge = 8 Bits, Stop-Bit = 1, Parität = keine
Die RETURN-Taste auf der Tastatur drücken. Erscheint "ERR" erneut?
JA
ENDE


Überprüfung der Stromversorgung
Sind alle Steckverbindungen innerhalb der Stromversorgung fest angeschlossen?
NEIN
Die Steckverbinder CN7106, 7103, 7101 und 7102 gut einstecken.
JA
Ist die Lampenabdeckung vollkommen geschlossen?
NEIN
Die Lampenabdeckung mit den Schrauben gut festziehen.
JA
Funktioniert der Bimetallschalter?
NEIN
Den Bimetallschalter auswechseln oder den roten Knopf zwecks Rückstellung drücken.
JA
Wird dem Relais RL7001 Netzspannung zugeführt?
NEIN
F7001 auswechseln.
JA
Wird dem L7005 Netzspannung zugeführt?
NEIN
F7002 auswechseln.
JA
Wird dem C7151 ca. 6V-Gleichspannung zugeführt?
NEIN
Die peripheren Schaltkreise von Q7101 bis Q7107 überprüfen. Wenn erforderlich, die entsprechenden Komponenten auswechseln.
JA
Wird dem CN7003 ca. 340V-Gleichspannung zugeführt?
NEIN
Die Schaltkreise zur Primärseite von T7002 auf Beschädigung überprüfen. Wenn erforderlich, die entsprechenden Komponenten auswechseln.
JA
Liegen die spezifizierten Spannungen an den Ausgangsanschlüssen von CN7101 und CN7102 an?
NEIN
Die Schaltkreise zur Sekundärseite von T7002 auf Beschädigung überprüfen. Wenn erforderlich, die entsprechenden Komponenten auswechseln.
JA
Die Platinen-Ausgangsschaltkreise überprüfen.


Die Lampe leuchtet.
Die Netzanzeige leuchtet nicht.
JA
Den Spannungs-BU6V-Kreis Überprüfen.
IC2005 ist defekt.
NEIN
Beim Anschluß an eine Steck-dose leuchtet die Netzanzeige rot, aber sie erlischt bald.
JA
Die Lampenklappe und den Lampenschalter überprüfen. Die rote Taste am Bimetallschalter drücken.
Jeden Ausgang der Stromversorgung überprüfen.
NEIN
Die Netzanzeige blinkt langsam.
JA
Die 3,3-V-Spannungsversorgung überprüfen.
NEIN
Die Lampenanzeige leuchtet blau, aber sie erlischt in ca. 15 Sekunden. (Das Standby-Display erscheint.)
JA
Die 13-V-Spannungsversorgung und den Kühlgebläse-Antriebskreis überprüfen.
NEIN
Die Lampenanzeige blinkt blau, aber sie leuchtet rot in ca. eine Minute.
JA
Die Lampe oder die Vorschaltgerät-Einheit ist defekt.
NEIN
(Zur Überprüfen die obere Gehäusehälfte abnehmen.)
Die Lampenanzeige blinkt blau, aber die Temperaturmonitoranzeige leuchtet in ca. 25 Sekunden. Die Lampe leuchtet niemals.
JA
Der Kabelbaum [CA] oder die Vorschaltgerät-Einheit ist defekt.
NEIN
Die Lampenanzeige blinkt blau, aber die Temperaturmonitoranzeige leuchtet in ca. 25 Sekunden. Die Lampe leuchtet einmal.
JA
Die LAMP FLAG-Signal- und LAMP LIT-Signalleitungen überprüfen.
NEIN
Mit dem Abschnitt "Die Lampenanzeige blinkt blau weiter" fortfahren.

**Die Lampenanzeige blinkt blau weiter.**

Liegt eine Spannung von 2,5 V oder darüber an den Stiften (5) und (15) von J8003 in der PCI/F-Einheit an?

**NEIN** → IC2005 (Sub-Mikrocomputer) und seine Peripherie überprüfen.

**JA**

Liegt eine Spannung von 3 V oder darüber am Stift (8) von J8003 in der PCI/F-Einheit an?

**JA** → IC2005 (Sub-Mikrocomputer) und seine Peripherie überprüfen.

**NEIN**

Liegt ein Taktsignal von 1 Vss oder darüber am Stift (F2) von IC9101 in der Formatter-Einheit an?

**NEIN** → X9101 überprüfen.

**JA**

Liegt ein Impuls gleich nach der Stromeinschaltung an den einzelnen Adreßstiften von IC9102 in der Formatter-Einheit an?

**JA** → IC9101 ist defekt.

**NEIN**

Liegt ein Impuls gleich nach der Stromeinschaltung an den einzelnen Datenstiften von IC9102 auf der Formatter-Einheit an?

**NEIN** → IC9102 ist defekt.

**JA**

Liegt eine Spannung von 3 V oder darüber am Stift (49) von IC9401 an?

**NEIN** → IC9101 ist defekt.

**JA**

Liegt ein Motorantriebsimpuls an den Stiften (2), (3) und (4) von P9402 in der Formatter-Einheit an?

**NEIN** → IC9401 oder Q9401 - Q9403 sind defekt.

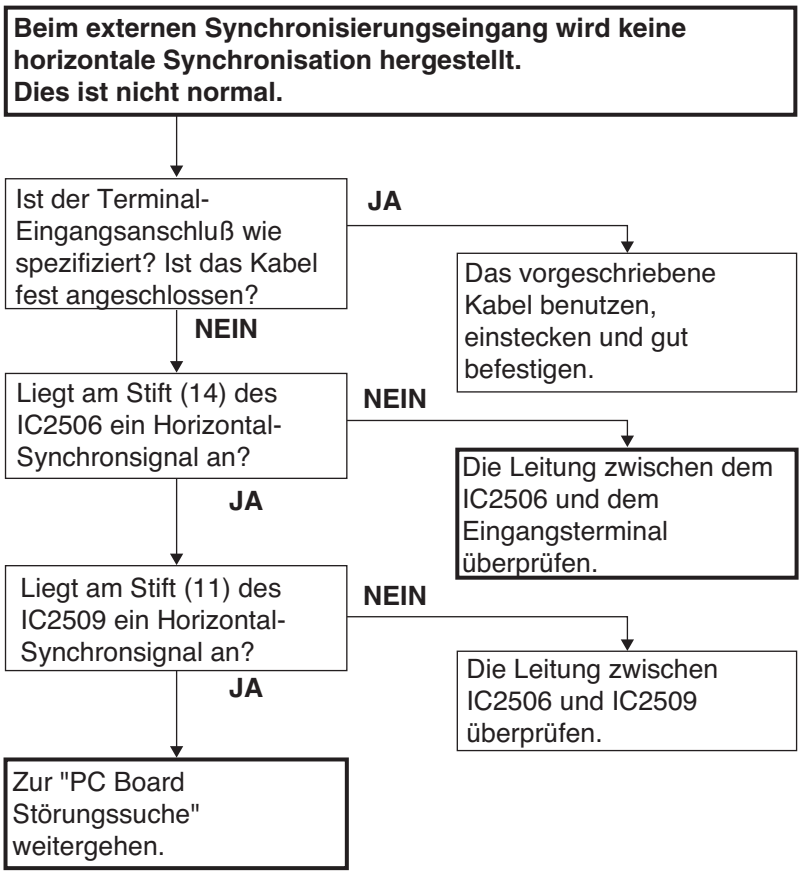
**JA**

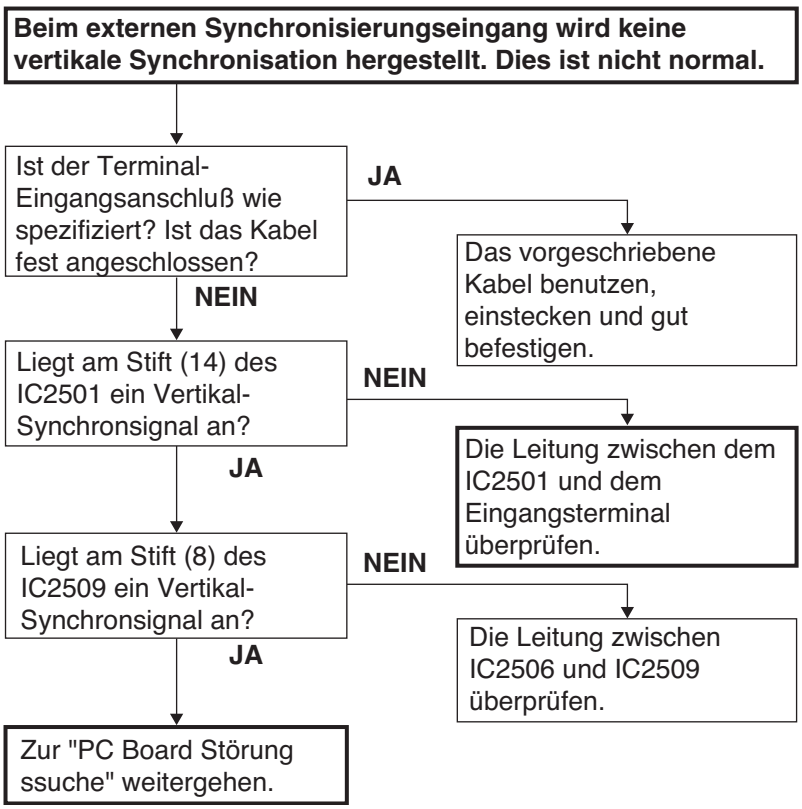
Liegt ein Impuls am Stift (4) von P9401 in der Formatter-Einheit an?

**NEIN** → Die Farbrad-Einheit ist defekt.

**JA**

IC9101 is defective.


Beim externen Synchronisierungseingang wird keine horizontale Synchronisation hergestellt.
Dies ist nicht normal.
Ist der Terminal-Eingangsanschluß wie spezifiziert? Ist das Kabel fest angeschlossen?
JA
Das vorgeschriebene Kabel benutzen, einstecken und gut befestigen.
NEIN
Liegt am Stift (14) des IC2506 ein Horizontal-Synchronsignal an?
NEIN
Die Leitung zwischen dem IC2506 und dem Eingangsterminal überprüfen.
JA
Liegt am Stift (11) des IC2509 ein Horizontal-Synchronsignal an?
NEIN
Die Leitung zwischen IC2506 und IC2509 überprüfen.
JA
Zur "PC Board Störungssuche" weitergehen.


Beim externen Synchronisierungseingang wird keine vertikale Synchronisation hergestellt. Dies ist nicht normal.
Ist der Terminal-Eingangsanschluß wie spezifiziert? Ist das Kabel fest angeschlossen?
JA
Das vorgeschriebene Kabel benutzen, einstecken und gut befestigen.
NEIN
Liegt am Stift (14) des IC2501 ein Vertikal-Synchronsignal an?
NEIN
Die Leitung zwischen dem IC2501 und dem Eingangsterminal überprüfen.
JA
Liegt am Stift (8) des IC2509 ein Vertikal-Synchronsignal an?
NEIN
Die Leitung zwischen IC2506 und IC2509 überprüfen.
JA
Zur "PC Board Störung ssuche" weitergehen.

**Überprüfung des IC3504 (3D-Rauschunterdrückung) und seiner peripheren Schaltkreise.**

Liegen Eingangssignale an den Stiften (88) (Y-Signal) und (96) (C-Signal) von IC3504 an?

**NEIN**

Den Eingangssignal schaltkreis des IC2505 und seine peripheren Schaltkreise überprüfen.

**JA**

Liegen Ausgangssignale an den Stiften (84) (Y-Signal) und (83) (C-Signal) von IC3504 an?

**NEIN**

Der IC3504 und sein peripherer Schaltkreis ist defekt.

**JA**

Die Leitung zum PC-Kartenanschluß bzw. die Schaltkreise überprüfen, welche der PC-Karte folgen.

**Überprüfung der Komponenten- und RGB-Eingänge**

Liegen Signale an den Stiften (34), (36) und (38) von IC2505 an?

**NEIN**

Den Eingangssignal schaltkreis oder den IC2505 und seine peripheren Schaltkreise überprüfen.

**JA**

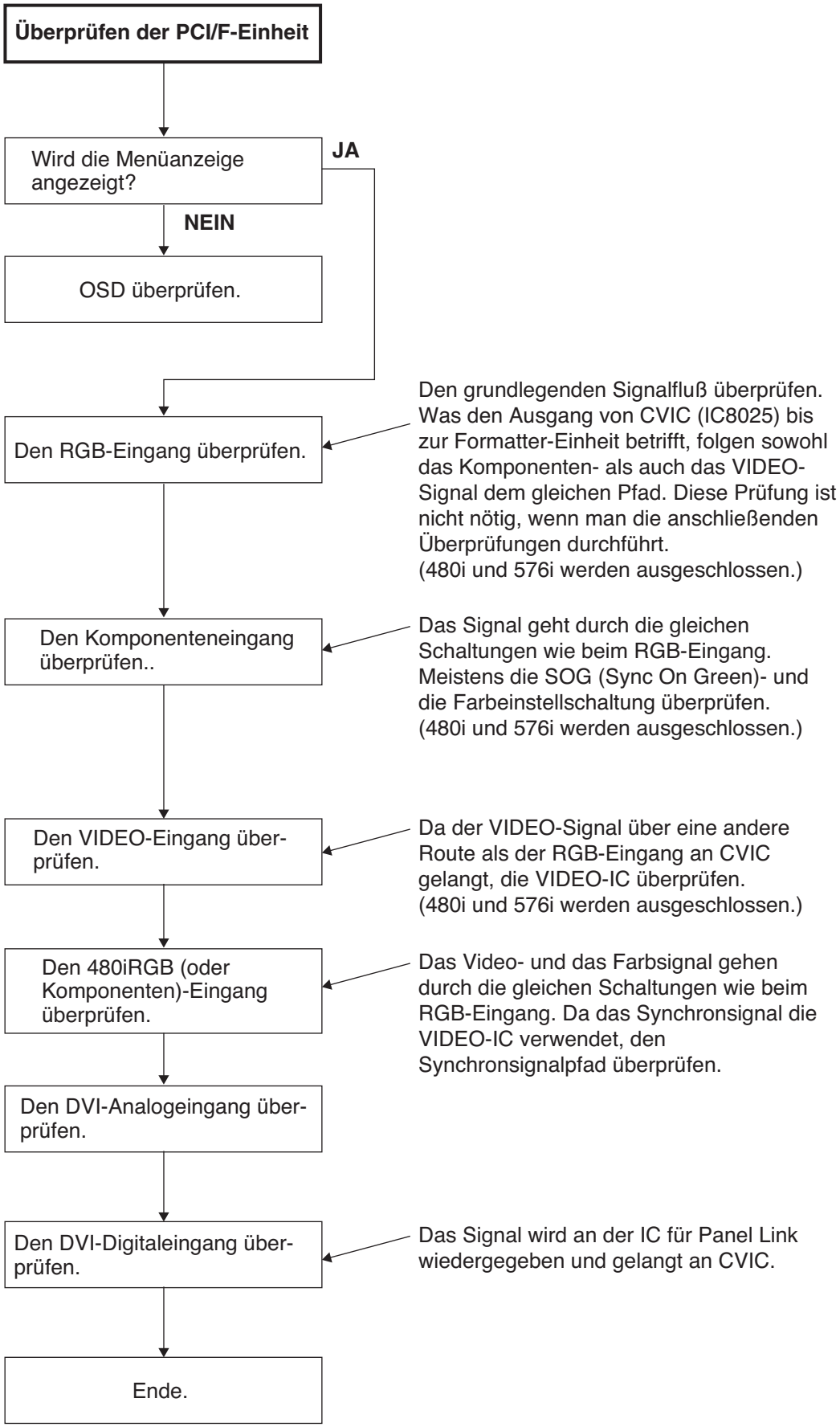
Liegen Signale an den Stiften (60/30), (58/28), (56/26) und (51/21) von P3580 an (Anschlußstellen zwischen den Steckkarten)?

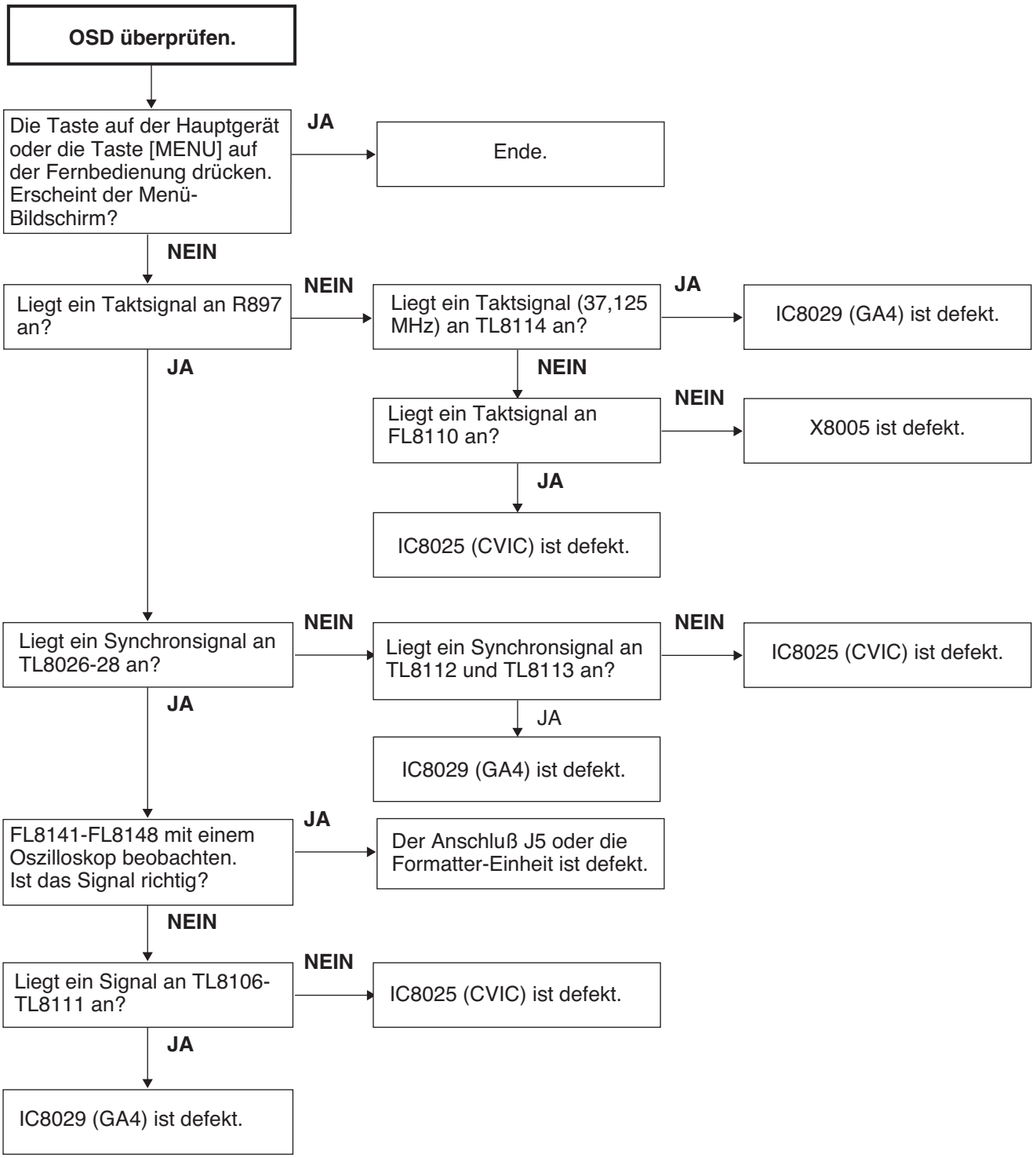
**NEIN**

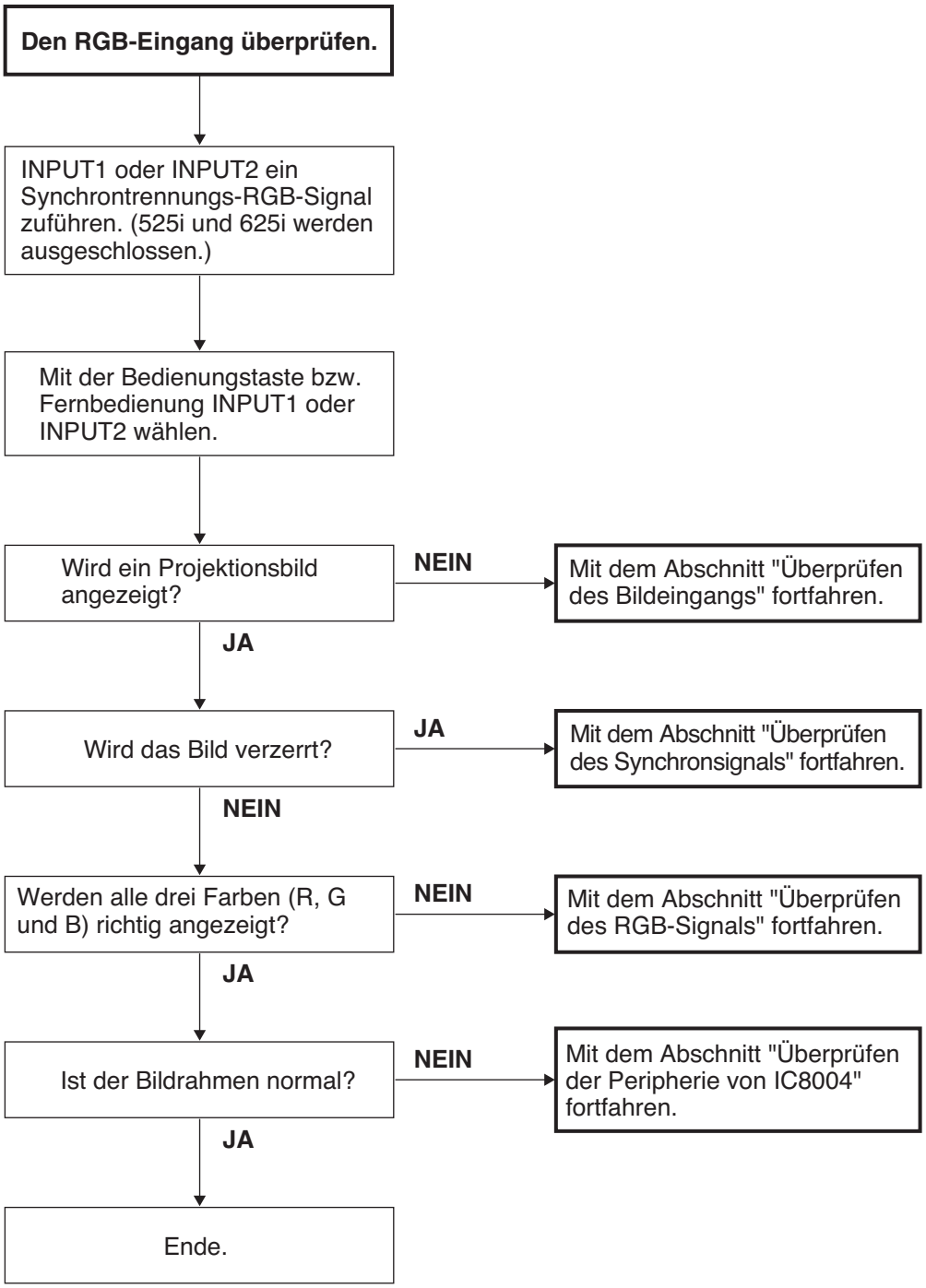
Die Leitung zwischen dem Q2518 bis Q2520 und Q2523 sowie seine peripheren Schaltkreise überprüfen.

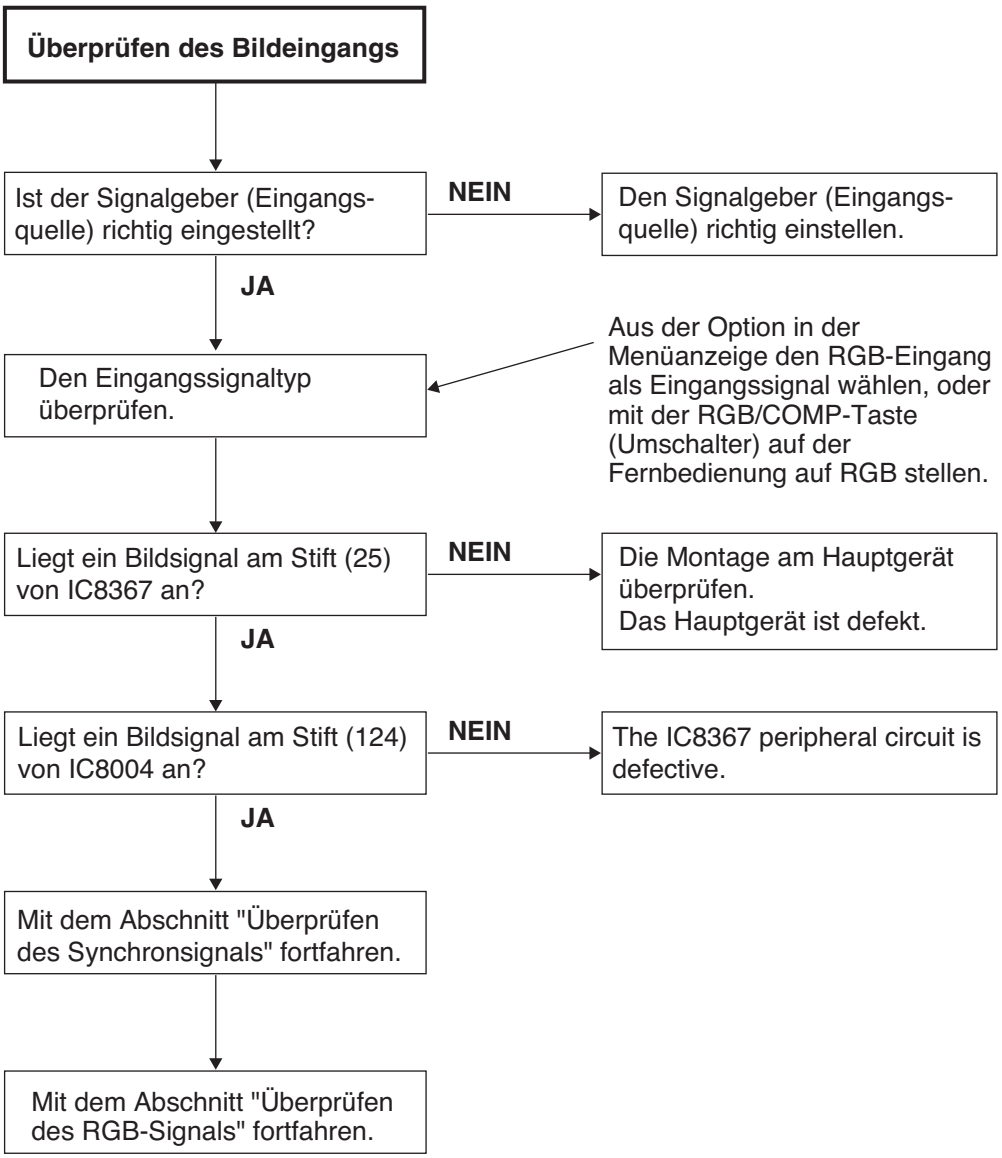
**JA**

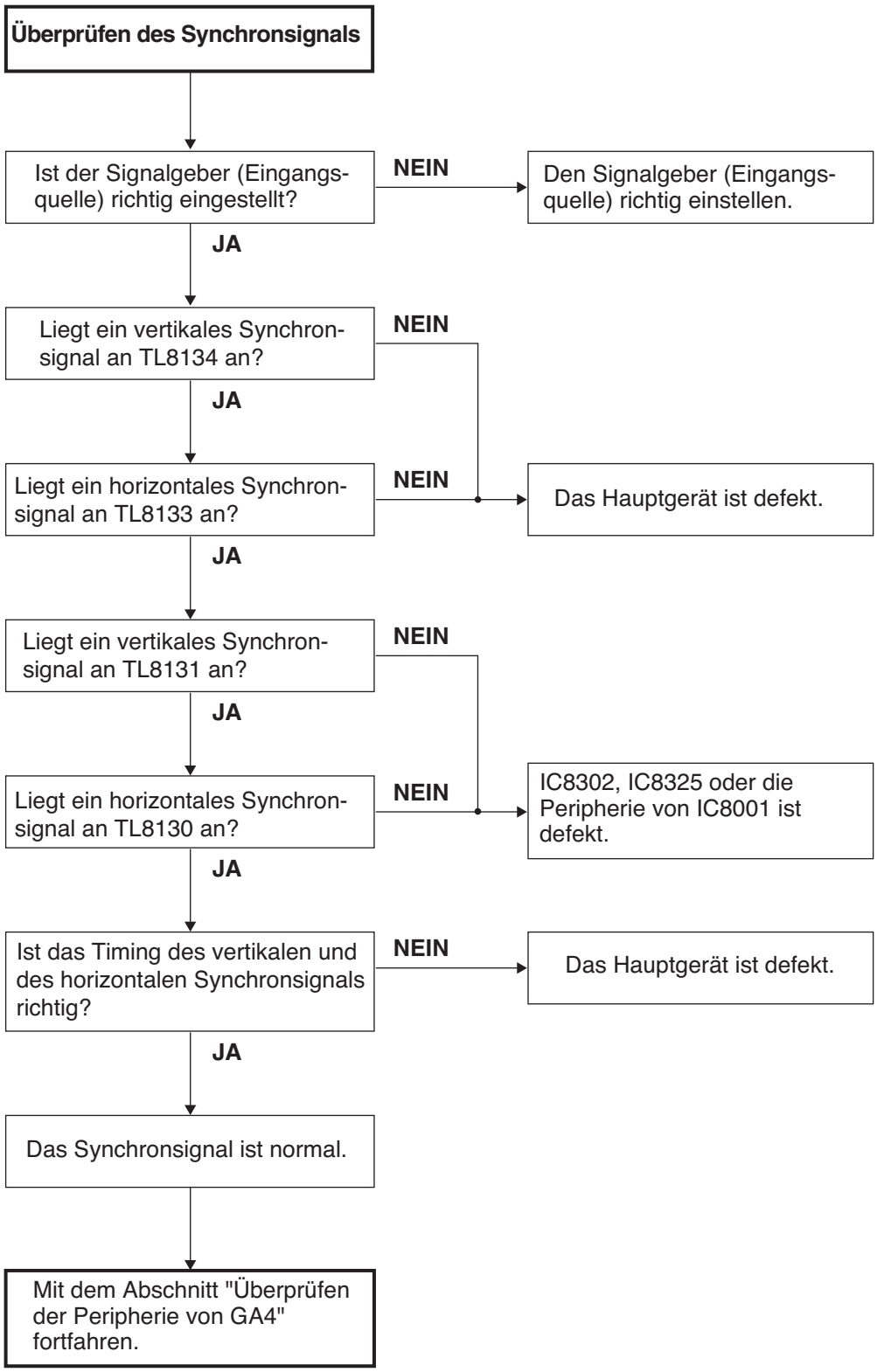
Die Anschlußstellen zwischen den Steckkarten überprüfen bzw. die Schaltkreise, die der PC-Karte folgen.

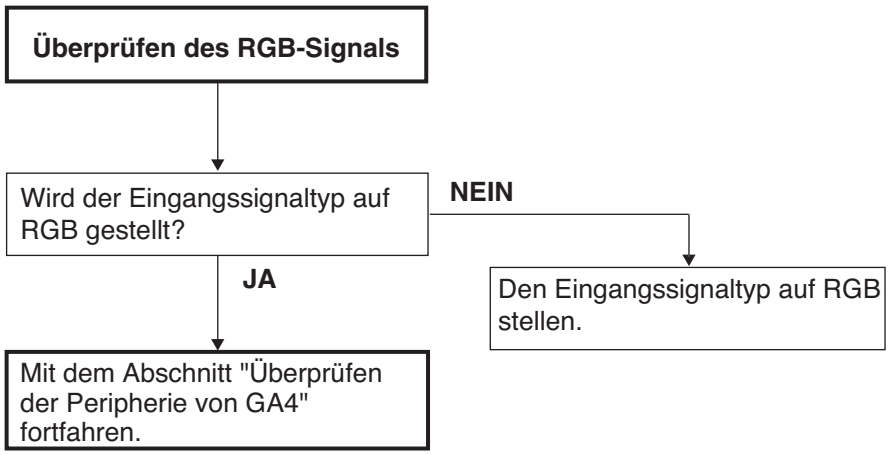

Überprüfen der PCI/F-Einheit
Wird die Menüanzeige angezeigt?
JA
NEIN
OSD überprüfen.
Den RGB-Eingang überprüfen.
Den grundlegenden Signalfluß überprüfen. Was den Ausgang von CVIC (IC8025) bis zur Formatter-Einheit betrifft, folgen sowohl das Komponenten- als auch das VIDEO-Signal dem gleichen Pfad. Diese Prüfung ist nicht nötig, wenn man die anschließenden Überprüfungen durchführt. (480i und 576i werden ausgeschlossen.)
Den Komponenteneingang überprüfen..
Das Signal geht durch die gleichen Schaltungen wie beim RGB-Eingang. Meistens die SOG (Sync On Green)- und die Farbeinstellschaltung überprüfen. (480i und 576i werden ausgeschlossen.)
Den VIDEO-Eingang überprüfen.
Da der VIDEO-Signal über eine andere Route als der RGB-Eingang an CVIC gelangt, die VIDEO-IC überprüfen. (480i und 576i werden ausgeschlossen.)
Den 480iRGB (oder Komponenten)-Eingang überprüfen.
Das Video- und das Farbsignal gehen durch die gleichen Schaltungen wie beim RGB-Eingang. Da das Synchronsignal die VIDEO-IC verwendet, den Synchronsignalpfad überprüfen.
Den DVI-Analogeingang überprüfen.
Den DVI-Digitaleingang überprüfen.
Das Signal wird an der IC für Panel Link wiedergegeben und gelangt an CVIC.
Ende.

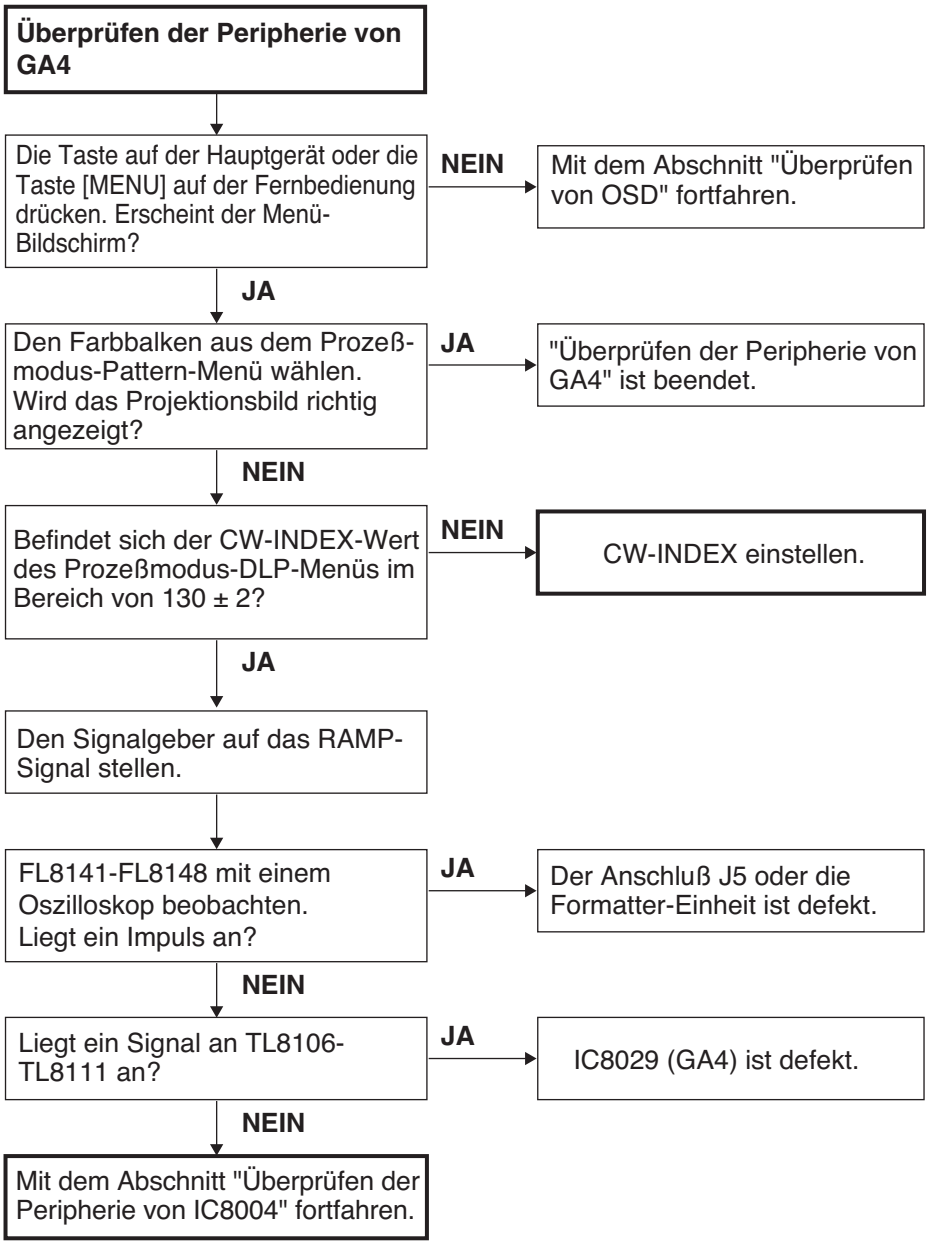

OSD überprüfen.
Die Taste auf der Hauptgerät oder die Taste [MENU] auf der Fernbedienung drücken. Erscheint der Menü-Bildschirm?
JA
Ende.
NEIN
Liegt ein Taktsignal an R897 an?
NEIN
Liegt ein Taktsignal (37,125 MHz) an TL8114 an?
JA
IC8029 (GA4) ist defekt.
JA
NEIN
Liegt ein Taktsignal an FL8110 an?
NEIN
X8005 ist defekt.
JA
IC8025 (CVIC) ist defekt.
Liegt ein Synchronsignal an TL8026-28 an?
NEIN
Liegt ein Synchronsignal an TL8112 und TL8113 an?
NEIN
IC8025 (CVIC) ist defekt.
JA
JA
IC8029 (GA4) ist defekt.
FL8141-FL8148 mit einem Oszilloskop beobachten. Ist das Signal richtig?
JA
Der Anschluß J5 oder die Formatter-Einheit ist defekt.
NEIN
Liegt ein Signal an TL8106-TL8111 an?
NEIN
IC8025 (CVIC) ist defekt.
JA
IC8029 (GA4) ist defekt.

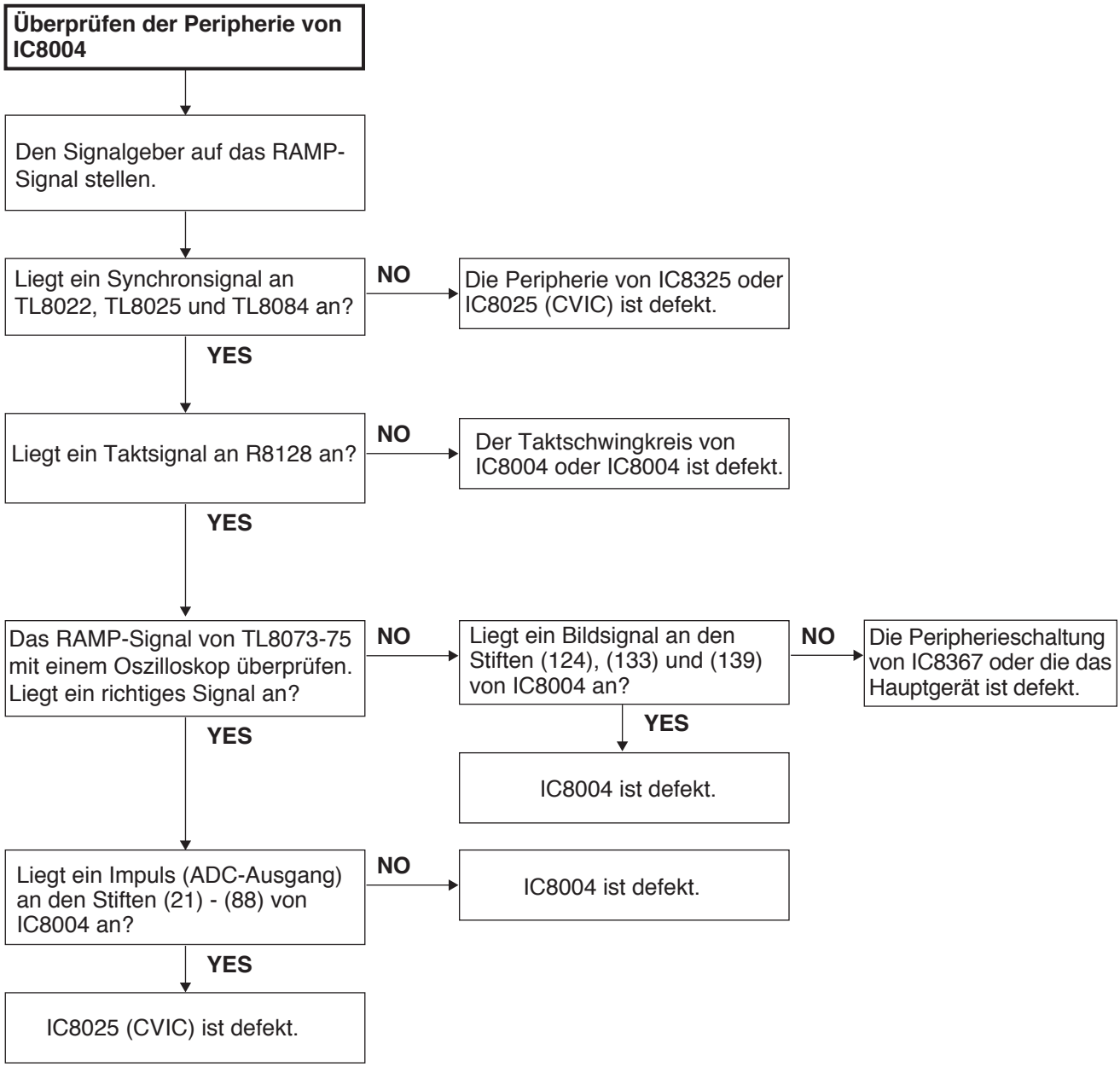

Den RGB-Eingang überprüfen.
INPUT1 oder INPUT2 ein Synchrontrennungs-RGB-Signal zuführen. (525i und 625i werden ausgeschlossen.)
Mit der Bedienungstaste bzw. Fernbedienung INPUT1 oder INPUT2 wählen.
Wird ein Projektionsbild angezeigt?
NEIN
Mit dem Abschnitt "Überprüfen des Bildeingangs" fortfahren.
JA
Wird das Bild verzerrt?
JA
Mit dem Abschnitt "Überprüfen des Synchronsignals" fortfahren.
NEIN
Werden alle drei Farben (R, G und B) richtig angezeigt?
NEIN
Mit dem Abschnitt "Überprüfen des RGB-Signals" fortfahren.
JA
Ist der Bildrahmen normal?
NEIN
Mit dem Abschnitt "Überprüfen der Peripherie von IC8004" fortfahren.
JA
Ende.

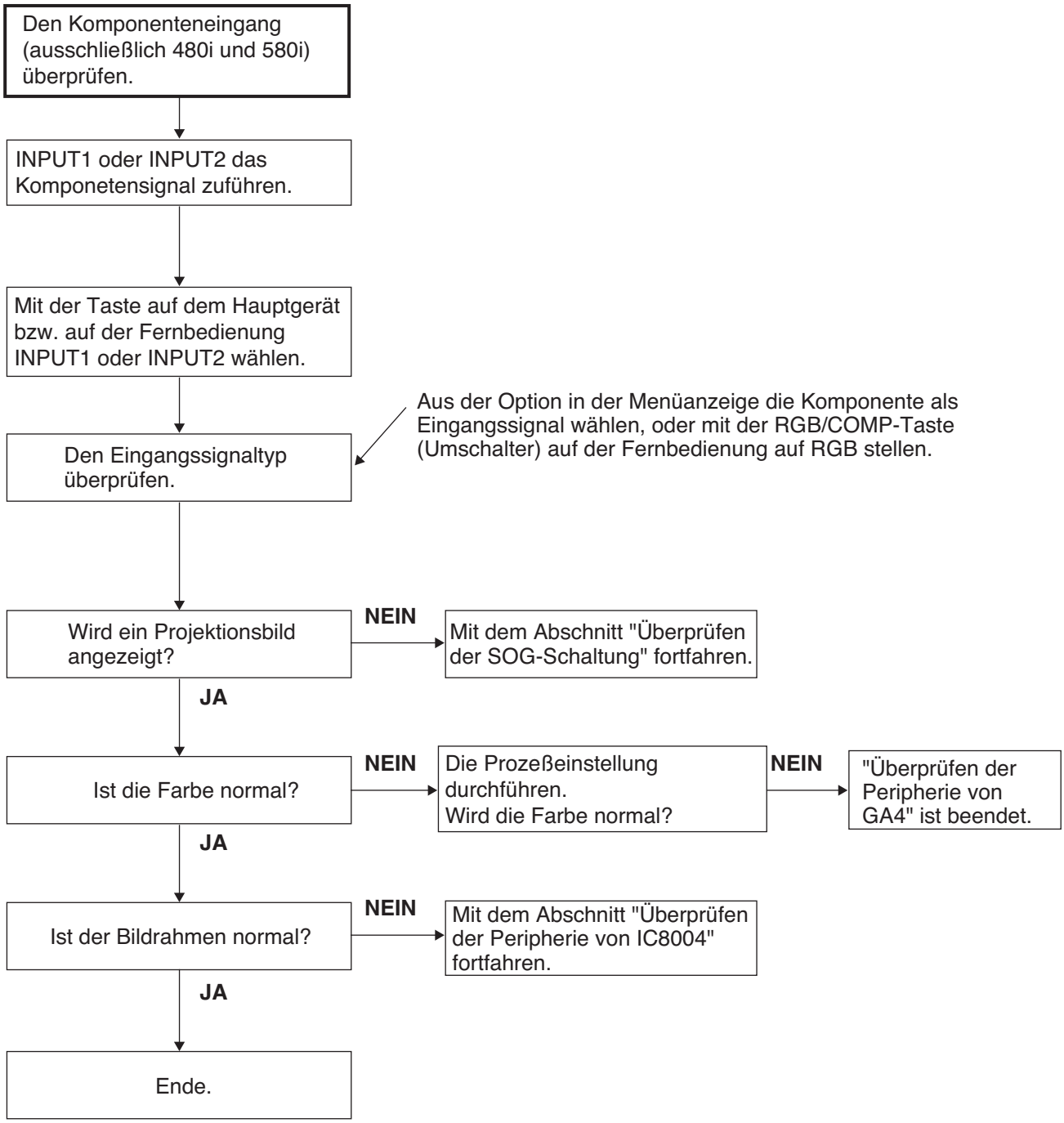

Überprüfen des Bildeingangs
Ist der Signalgeber (Eingangs-quelle) richtig eingestellt?
NEIN
Den Signalgeber (Eingangs-quelle) richtig einstellen.
JA
Aus der Option in der Menüanzeige den RGB-Eingang als Eingangssignal wählen, oder mit der RGB/COMP-Taste (Umschalter) auf der Fernbedienung auf RGB stellen.
Den Eingangssignaltyp überprüfen.
Liegt ein Bildsignal am Stift (25) von IC8367 an?
NEIN
Die Montage am Hauptgerät überprüfen.
Das Hauptgerät ist defekt.
JA
Liegt ein Bildsignal am Stift (124) von IC8004 an?
NEIN
The IC8367 peripheral circuit is defective.
JA
Mit dem Abschnitt "Überprüfen des Synchronsignals" fortfahren.
Mit dem Abschnitt "Überprüfen des RGB-Signals" fortfahren.

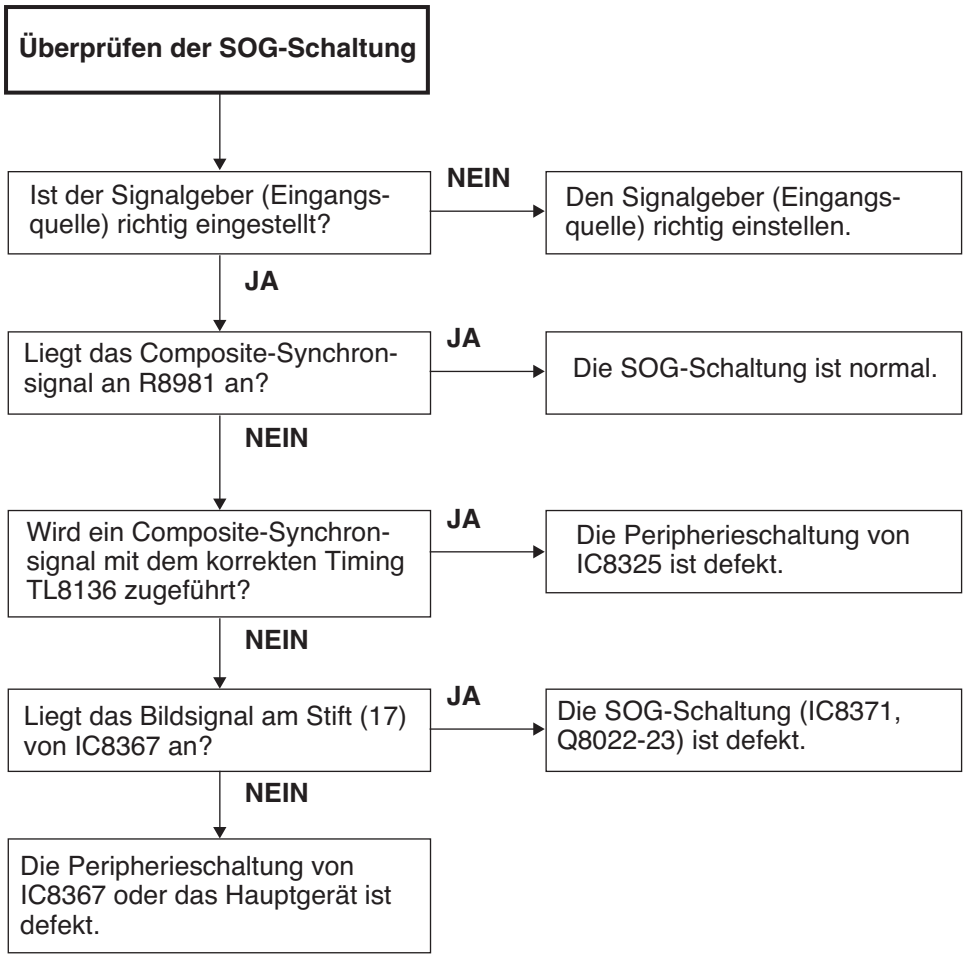

Überprüfen des Synchronsignals
Ist der Signalgeber (Eingangs-quelle) richtig eingestellt?
NEIN
Den Signalgeber (Eingangs-quelle) richtig einstellen.
JA
Liegt ein vertikales Synchron-signal an TL8134 an?
NEIN
JA
Liegt ein horizontales Synchron-signal an TL8133 an?
NEIN
Das Hauptgerät ist defekt.
JA
Liegt ein vertikales Synchron-signal an TL8131 an?
NEIN
JA
Liegt ein horizontales Synchron-signal an TL8130 an?
NEIN
IC8302, IC8325 oder die Peripherie von IC8001 ist defekt.
JA
Ist das Timing des vertikalen und des horizontalen Synchronsignals richtig?
NEIN
Das Hauptgerät ist defekt.
JA
Das Synchronsignal ist normal.
Mit dem Abschnitt "Überprüfen der Peripherie von GA4" fortfahren.

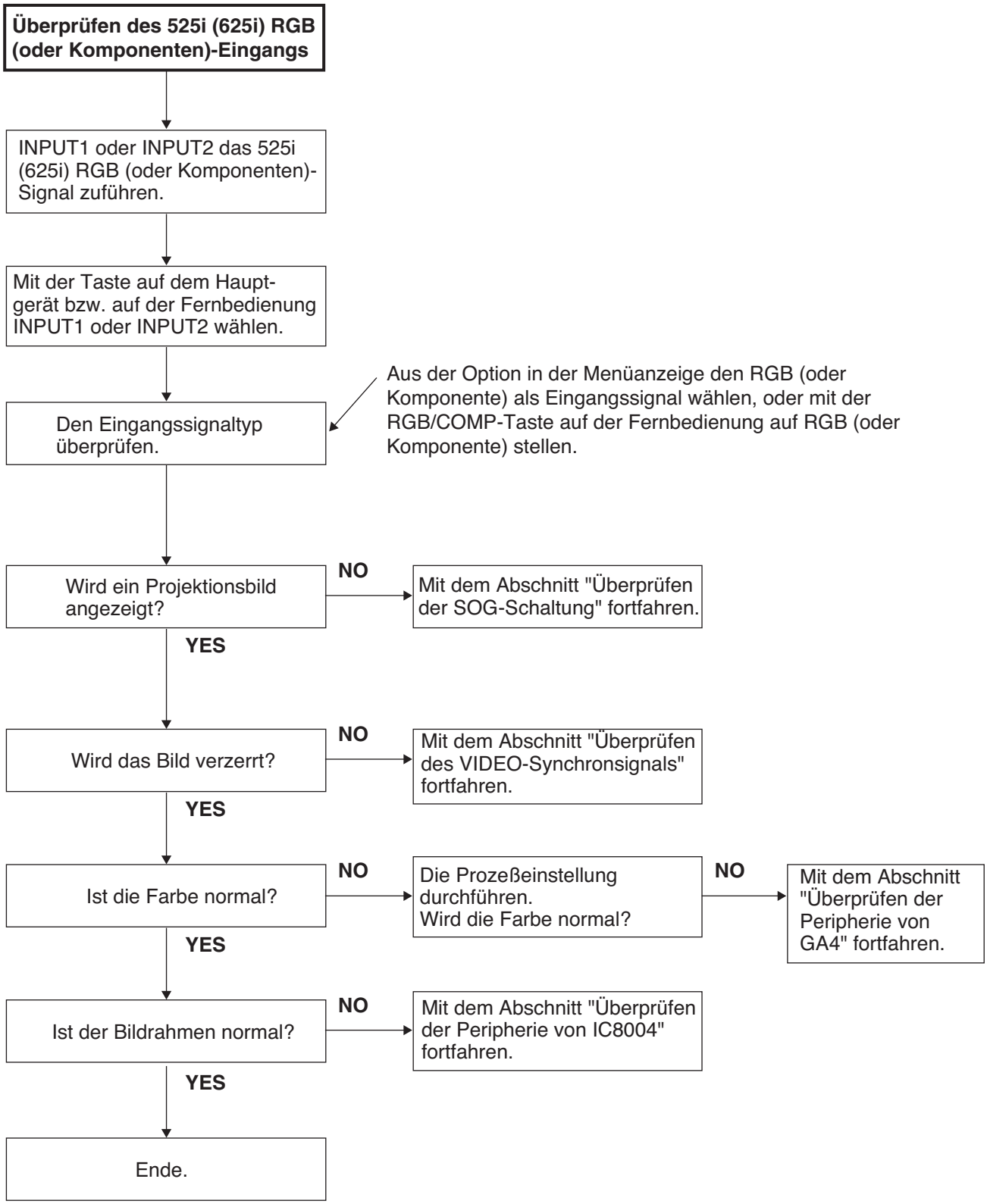

Überprüfen des RGB-Signals
Wird der Eingangssignaltyp auf RGB gestellt?
NEIN
JA
Den Eingangssignaltyp auf RGB stellen.
Mit dem Abschnitt "Überprüfen der Peripherie von GA4" fortfahren.

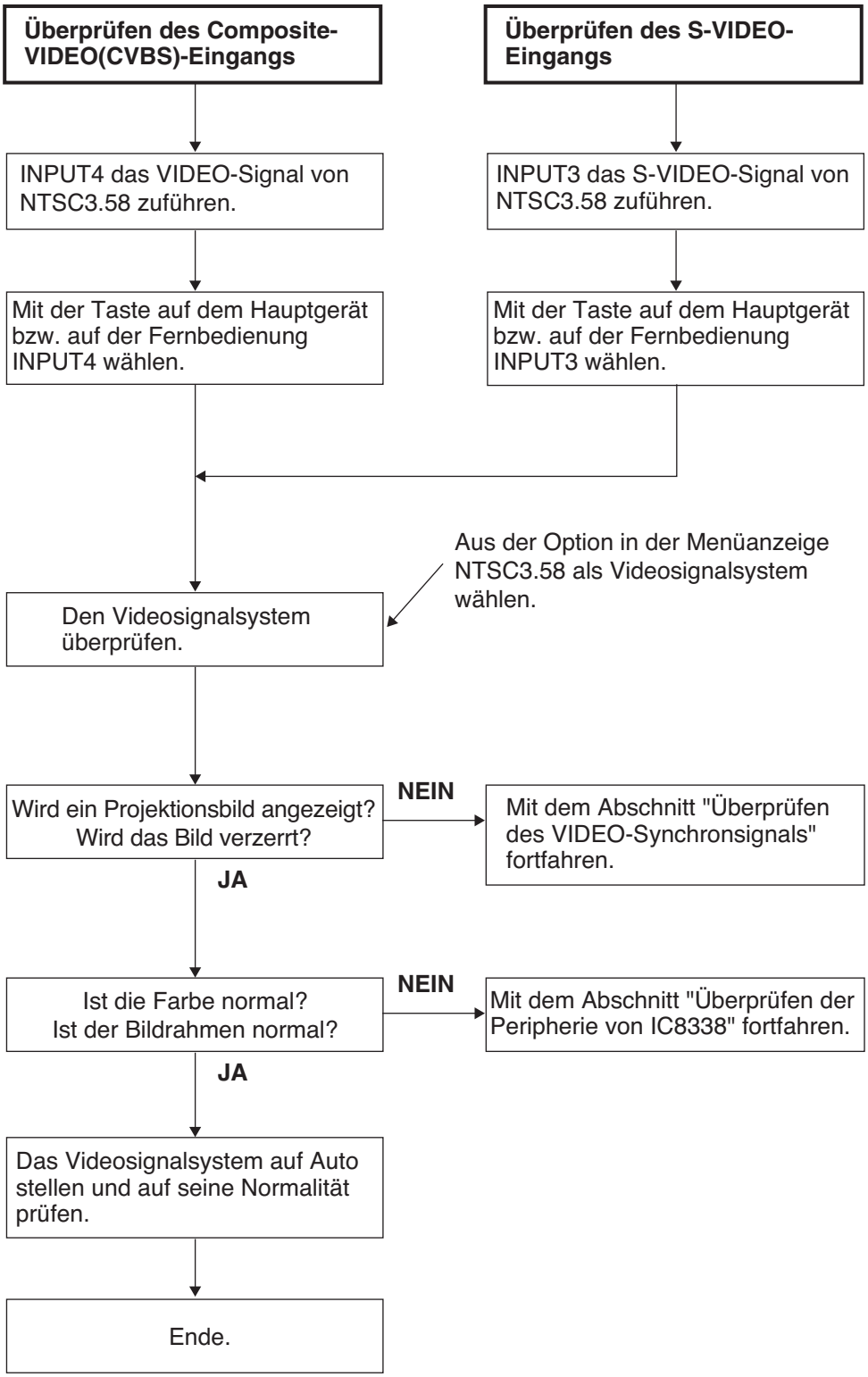

Überprüfen der Peripherie von GA4
Die Taste auf der Hauptgerät oder die Taste [MENU] auf der Fernbedienung drücken. Erscheint der Menü-Bildschirm?
NEIN
Mit dem Abschnitt "Überprüfen von OSD" fortfahren.
JA
Den Farbbalken aus dem Prozeß-modus-Pattern-Menü wählen. Wird das Projektionsbild richtig angezeigt?
JA
"Überprüfen der Peripherie von GA4" ist beendet.
NEIN
Befindet sich der CW-INDEX-Wert des Prozeßmodus-DLP-Menüs im Bereich von 130 ± 2?
NEIN
CW-INDEX einstellen.
JA
Den Signalgeber auf das RAMP-Signal stellen.
FL8141-FL8148 mit einem Oszilloskop beobachten. Liegt ein Impuls an?
JA
Der Anschluß J5 oder die Formatter-Einheit ist defekt.
NEIN
Liegt ein Signal an TL8106-TL8111 an?
JA
IC8029 (GA4) ist defekt.
NEIN
Mit dem Abschnitt "Überprüfen der Peripherie von IC8004" fortfahren.

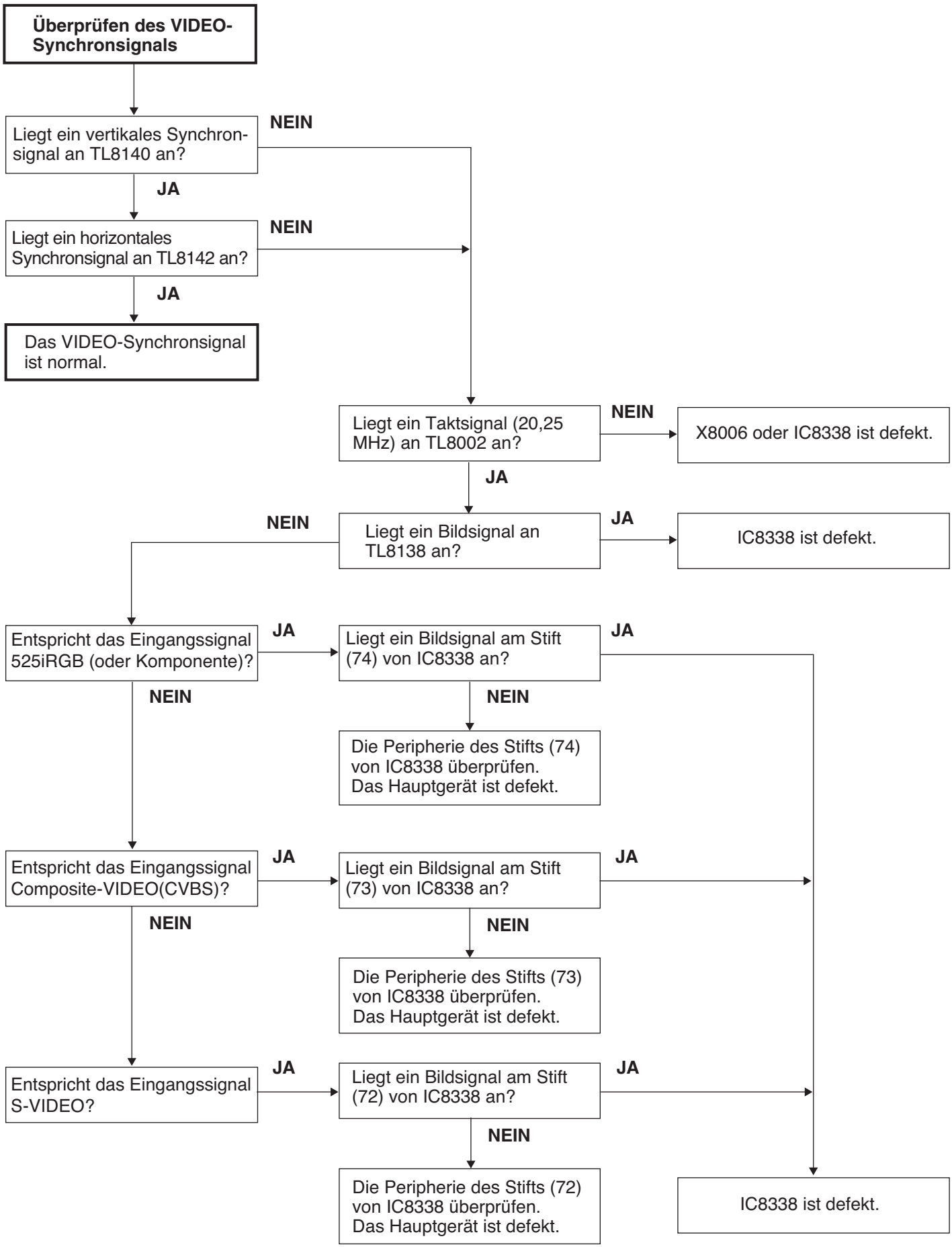

Überprüfen der Peripherie von IC8004
Den Signalgeber auf das RAMP-Signal stellen.
Liegt ein Synchronsignal an TL8022, TL8025 und TL8084 an?
NO
Die Peripherie von IC8325 oder IC8025 (CVIC) ist defekt.
YES
Liegt ein Taktsignal an R8128 an?
NO
Der Taktschwingkreis von IC8004 oder IC8004 ist defekt.
YES
Das RAMP-Signal von TL8073-75 mit einem Oszilloskop überprüfen. Liegt ein richtiges Signal an?
NO
Liegt ein Bildsignal an den Stiften (124), (133) und (139) von IC8004 an?
NO
Die Peripherieschaltung von IC8367 oder die das Hauptgerät ist defekt.
YES
IC8004 ist defekt.
YES
Liegt ein Impuls (ADC-Ausgang) an den Stiften (21) - (88) von IC8004 an?
NO
IC8004 ist defekt.
YES
IC8025 (CVIC) ist defekt.

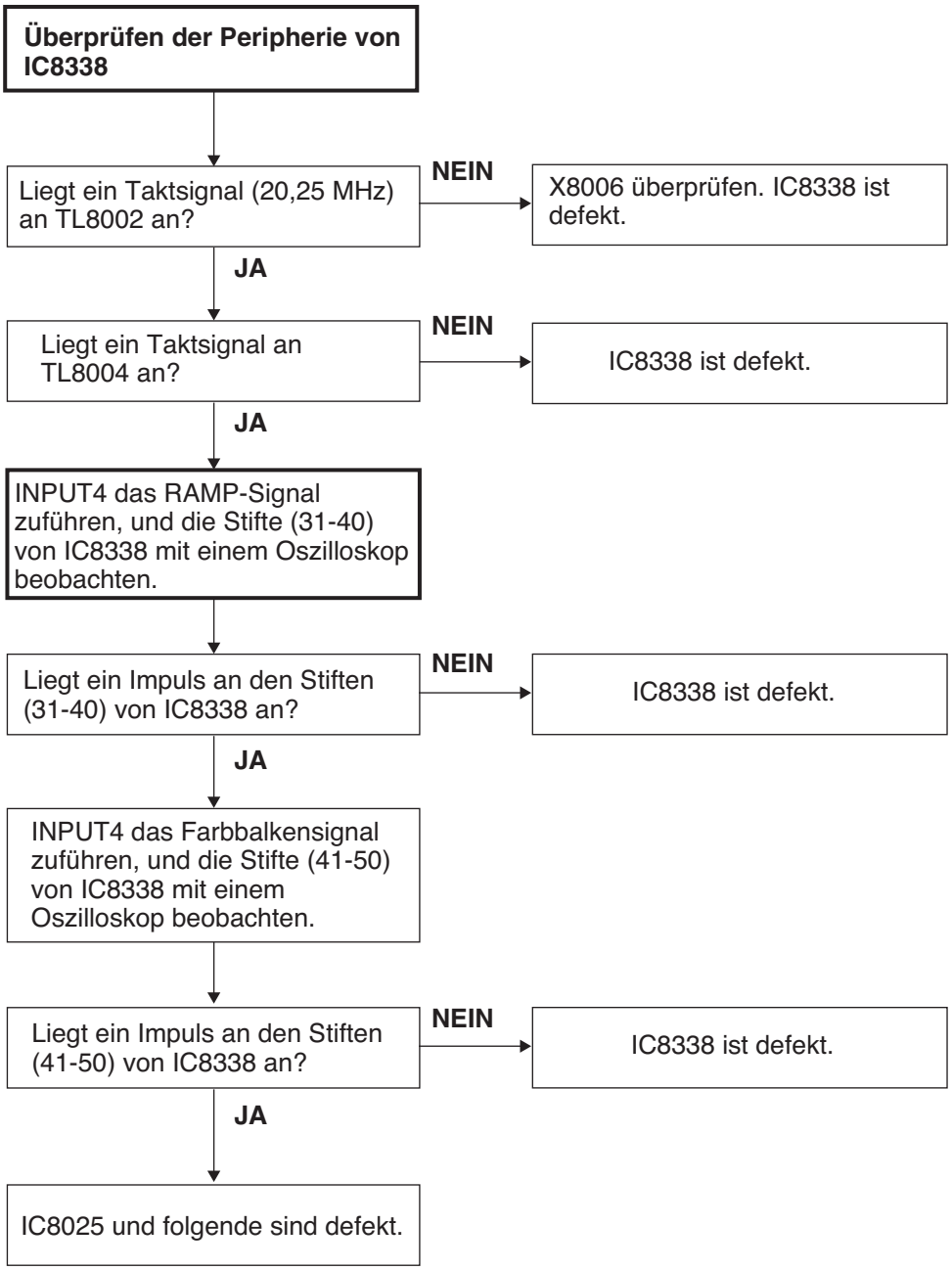

Den Komponenteneingang (ausschließlich 480i und 580i) überprüfen.
INPUT1 oder INPUT2 das Komponetensignal zuführen.
Mit der Taste auf dem Hauptgerät bzw. auf der Fernbedienung INPUT1 oder INPUT2 wählen.
Aus der Option in der Menüanzeige die Komponente als Eingangssignal wählen, oder mit der RGB/COMP-Taste (Umschalter) auf der Fernbedienung auf RGB stellen.
Den Eingangssignaltyp überprüfen.
Wird ein Projektionsbild angezeigt?
NEIN
Mit dem Abschnitt "Überprüfen der SOG-Schaltung" fortfahren.
JA
Ist die Farbe normal?
NEIN
Die Prozeßeinstellung durchführen. Wird die Farbe normal?
NEIN
"Überprüfen der Peripherie von GA4" ist beendet.
JA
Ist der Bildrahmen normal?
NEIN
Mit dem Abschnitt "Überprüfen der Peripherie von IC8004" fortfahren.
JA
Ende.

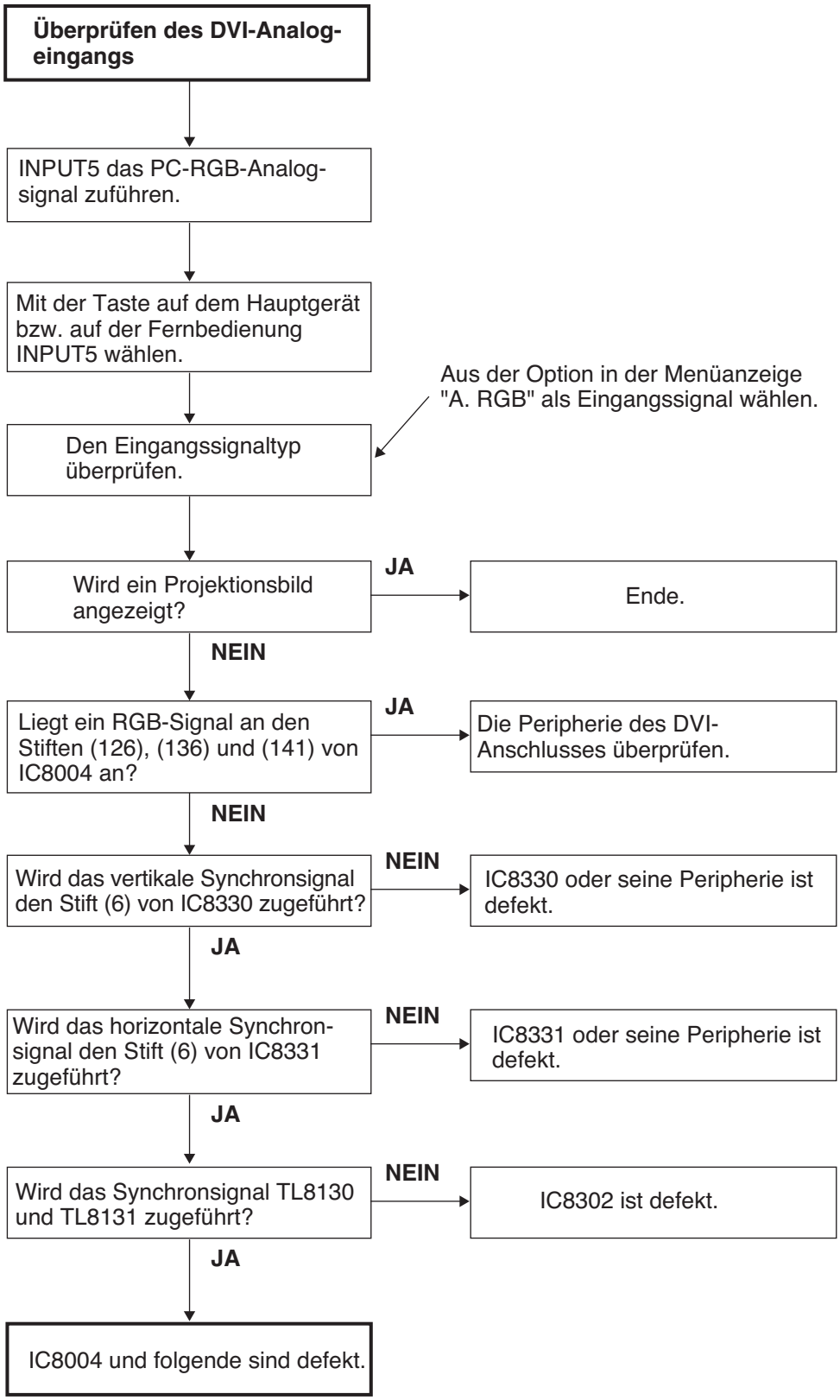

Überprüfen der SOG-Schaltung
Ist der Signalgeber (Eingangs-quelle) richtig eingestellt?
NEIN
Den Signalgeber (Eingangs-quelle) richtig einstellen.
JA
Liegt das Composite-Synchron-signal an R8981 an?
JA
Die SOG-Schaltung ist normal.
NEIN
Wird ein Composite-Synchron-signal mit dem korrekten Timing TL8136 zugeführt?
JA
Die Peripherieschaltung von IC8325 ist defekt.
NEIN
Liegt das Bildsignal am Stift (17) von IC8367 an?
JA
Die SOG-Schaltung (IC8371, Q8022-23) ist defekt.
NEIN
Die Peripherieschaltung von IC8367 oder das Hauptgerät ist defekt.

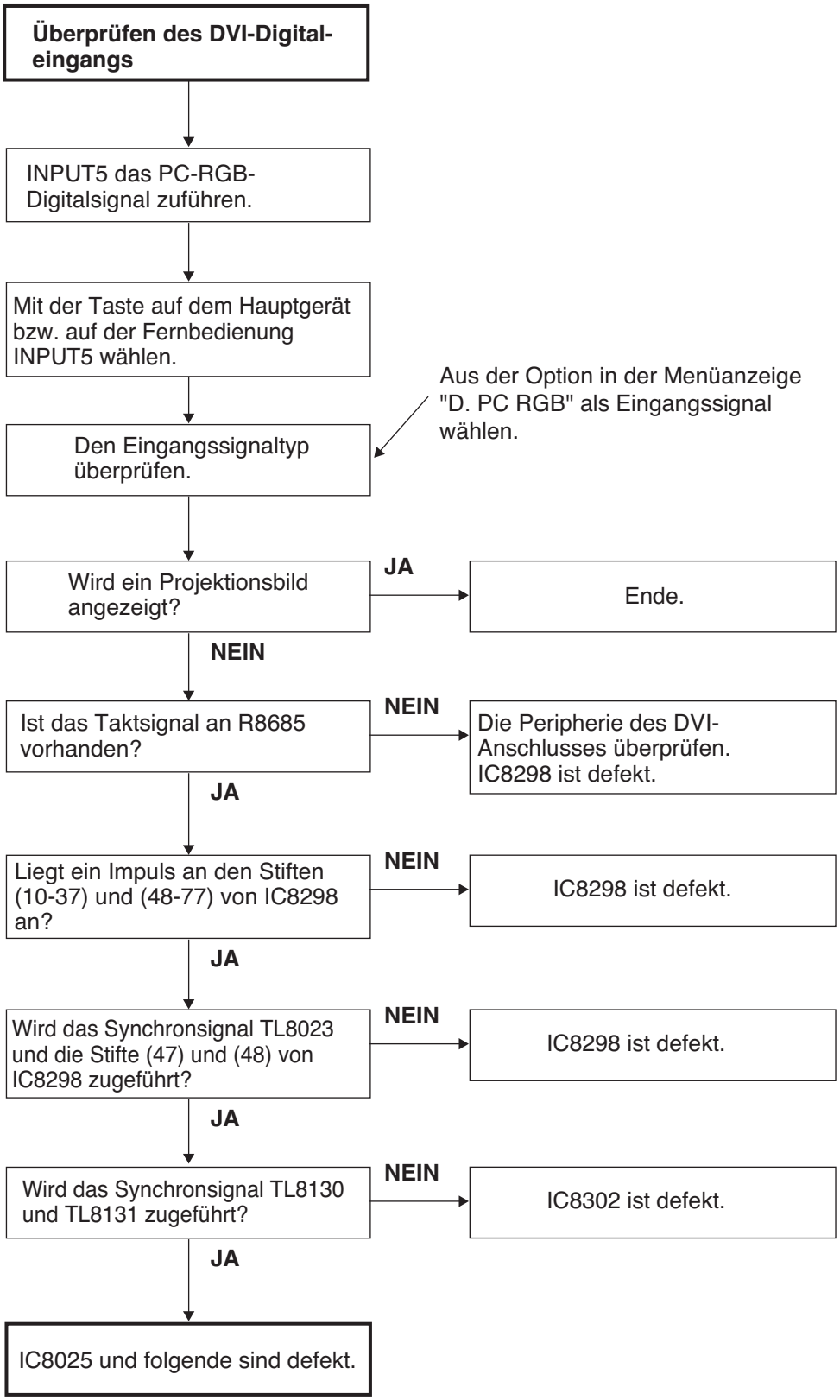

Überprüfen des 525i (625i) RGB (oder Komponenten)-Eingangs
INPUT1 oder INPUT2 das 525i (625i) RGB (oder Komponenten)-Signal zuführen.
Mit der Taste auf dem Hauptgerät bzw. auf der Fernbedienung INPUT1 oder INPUT2 wählen.
Den Eingangssignaltyp überprüfen.
Aus der Option in der Menüanzeige den RGB (oder Komponente) als Eingangssignal wählen, oder mit der RGB/COMP-Taste auf der Fernbedienung auf RGB (oder Komponente) stellen.
Wird ein Projektionsbild angezeigt?
NO
Mit dem Abschnitt "Überprüfen der SOG-Schaltung" fortfahren.
YES
Wird das Bild verzerrt?
NO
Mit dem Abschnitt "Überprüfen des VIDEO-Synchronsignals" fortfahren.
YES
Ist die Farbe normal?
NO
Die Prozeßeinstellung durchführen.
Wird die Farbe normal?
NO
Mit dem Abschnitt "Überprüfen der Peripherie von GA4" fortfahren.
YES
Ist der Bildrahmen normal?
NO
Mit dem Abschnitt "Überprüfen der Peripherie von IC8004" fortfahren.
YES
Ende.


Überprüfen des Composite-VIDEO(CVBS)-Eingangs
Überprüfen des S-VIDEO-Eingangs
INPUT4 das VIDEO-Signal von NTSC3.58 zuführen.
INPUT3 das S-VIDEO-Signal von NTSC3.58 zuführen.
Mit der Taste auf dem Hauptgerät bzw. auf der Fernbedienung INPUT4 wählen.
Mit der Taste auf dem Hauptgerät bzw. auf der Fernbedienung INPUT3 wählen.
Aus der Option in der Menüanzeige NTSC3.58 als Videosignalsystem wählen.
Den Videosignalsystem überprüfen.
Wird ein Projektionsbild angezeigt? Wird das Bild verzerrt?
NEIN
Mit dem Abschnitt "Überprüfen des VIDEO-Synchronsignals" fortfahren.
JA
Ist die Farbe normal? Ist der Bildrahmen normal?
NEIN
Mit dem Abschnitt "Überprüfen der Peripherie von IC8338" fortfahren.
JA
Das Videosignalsystem auf Auto stellen und auf seine Normalität prüfen.
Ende.


Überprüfen des VIDEO-Synchronsignals
Liegt ein vertikales Synchronsignal an TL8140 an?
NEIN
JA
Liegt ein horizontales Synchronsignal an TL8142 an?
NEIN
JA
Das VIDEO-Synchronsignal ist normal.
Liegt ein Taktsignal (20,25 MHz) an TL8002 an?
NEIN
X8006 oder IC8338 ist defekt.
JA
Liegt ein Bildsignal an TL8138 an?
JA
IC8338 ist defekt.
NEIN
Entspricht das Eingangssignal 525iRGB (oder Komponente)?
JA
Liegt ein Bildsignal am Stift (74) von IC8338 an?
JA
NEIN
NEIN
Die Peripherie des Stifts (74) von IC8338 überprüfen. Das Hauptgerät ist defekt.
Entspricht das Eingangssignal Composite-VIDEO(CVBS)?
JA
Liegt ein Bildsignal am Stift (73) von IC8338 an?
JA
NEIN
NEIN
Die Peripherie des Stifts (73) von IC8338 überprüfen. Das Hauptgerät ist defekt.
Entspricht das Eingangssignal S-VIDEO?
JA
Liegt ein Bildsignal am Stift (72) von IC8338 an?
JA
NEIN
Die Peripherie des Stifts (72) von IC8338 überprüfen. Das Hauptgerät ist defekt.
IC8338 ist defekt.

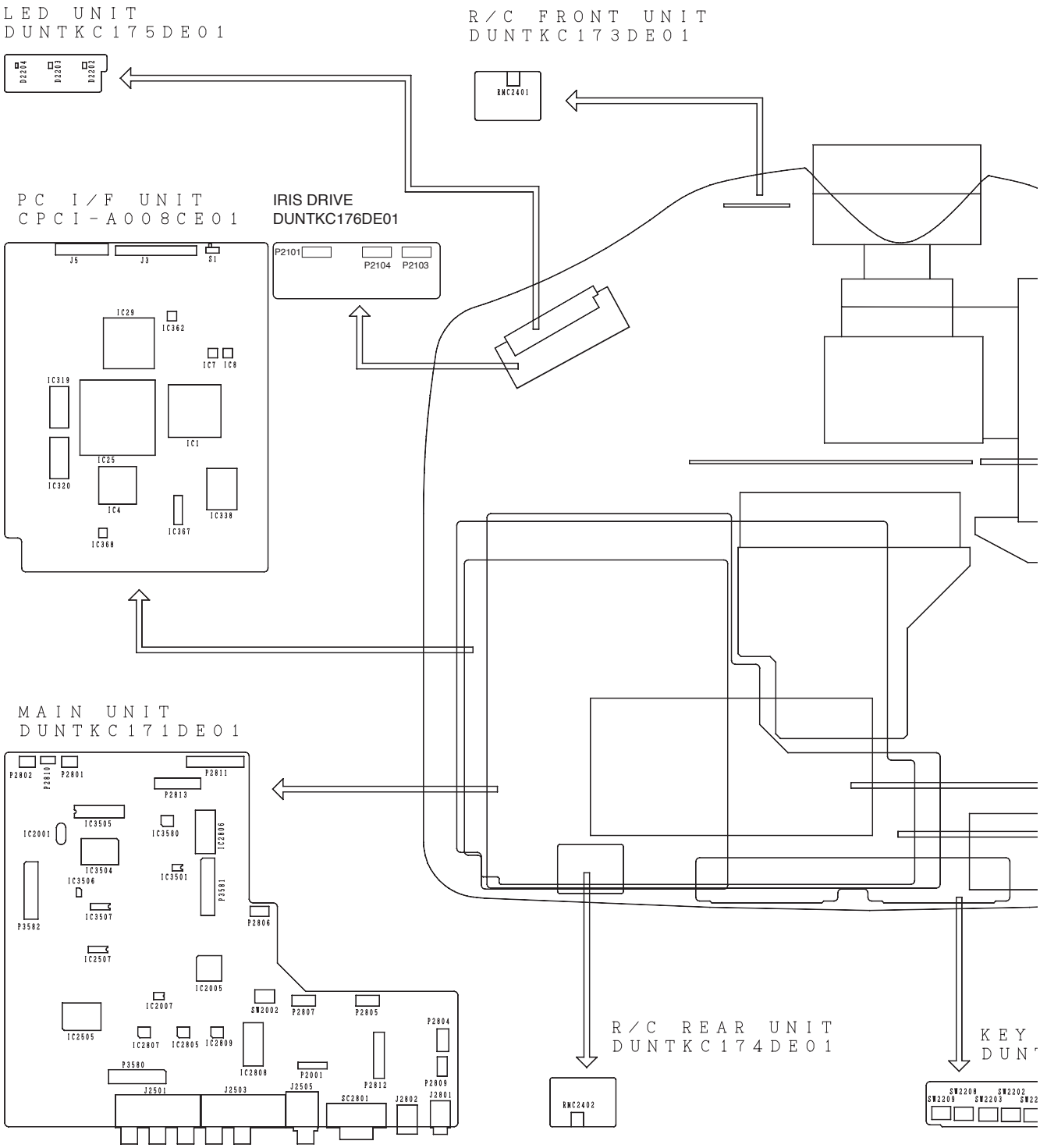

Überprüfen der Peripherie von IC8338
Liegt ein Taktsignal (20,25 MHz) an TL8002 an?
NEIN
X8006 überprüfen. IC8338 ist defekt.
JA
Liegt ein Taktsignal an TL8004 an?
NEIN
IC8338 ist defekt.
JA
INPUT4 das RAMP-Signal zuführen, und die Stifte (31-40) von IC8338 mit einem Oszilloskop beobachten.
Liegt ein Impuls an den Stiften (31-40) von IC8338 an?
NEIN
IC8338 ist defekt.
JA
INPUT4 das Farbbalkensignal zuführen, und die Stifte (41-50) von IC8338 mit einem Oszilloskop beobachten.
Liegt ein Impuls an den Stiften (41-50) von IC8338 an?
NEIN
IC8338 ist defekt.
JA
IC8025 und folgende sind defekt.


Überprüfen des DVI-Analog-eingangs
INPUT5 das PC-RGB-Analog-signal zuführen.
Mit der Taste auf dem Hauptgerät bzw. auf der Fernbedienung INPUT5 wählen.
Aus der Option in der Menüanzeige "A. RGB" als Eingangssignal wählen.
Den Eingangssignaltyp überprüfen.
Wird ein Projektionsbild angezeigt?
JA
Ende.
NEIN
Liegt ein RGB-Signal an den Stiften (126), (136) und (141) von IC8004 an?
JA
Die Peripherie des DVI-Anschlusses überprüfen.
NEIN
Wird das vertikale Synchronsignal den Stift (6) von IC8330 zugeführt?
NEIN
IC8330 oder seine Peripherie ist defekt.
JA
Wird das horizontale Synchron-signal den Stift (6) von IC8331 zugeführt?
NEIN
IC8331 oder seine Peripherie ist defekt.
JA
Wird das Synchronsignal TL8130 und TL8131 zugeführt?
NEIN
IC8302 ist defekt.
JA
IC8004 und folgende sind defekt.

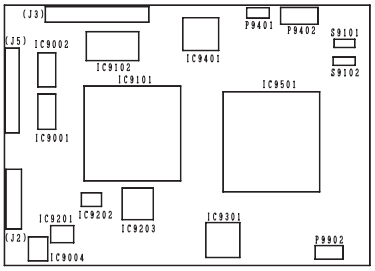

Überprüfen des DVI-Digital-eingangs
INPUT5 das PC-RGB-Digitalsignal zuführen.
Mit der Taste auf dem Hauptgerät bzw. auf der Fernbedienung INPUT5 wählen.
Aus der Option in der Menüanzeige "D. PC RGB" als Eingangssignal wählen.
Den Eingangssignaltyp überprüfen.
Wird ein Projektionsbild angezeigt?
JA
Ende.
NEIN
Ist das Taktsignal an R8685 vorhanden?
NEIN
Die Peripherie des DVI-Anschlusses überprüfen. IC8298 ist defekt.
JA
Liegt ein Impuls an den Stiften (10-37) und (48-77) von IC8298 an?
NEIN
IC8298 ist defekt.
JA
Wird das Synchronsignal TL8023 und die Stifte (47) und (48) von IC8298 zugeführt?
NEIN
IC8298 ist defekt.
JA
Wird das Synchronsignal TL8130 und TL8131 zugeführt?
NEIN
IC8302 ist defekt.
JA
IC8025 und folgende sind defekt.

- M E M O -

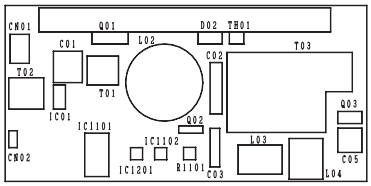
# CHASSIS LAYOUT / CHASSIS-ANORDNUNG



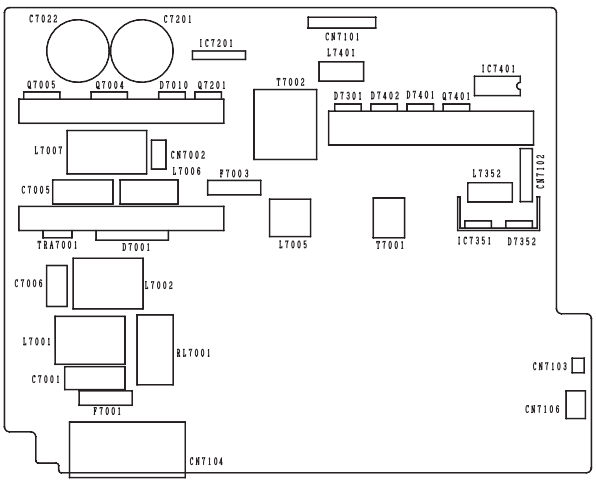
FORMATTER UNIT
DUNTKB474FE03



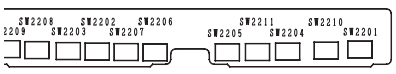

BALLAST UNIT
RDENCA027WJZZ




POWER UNIT
RDENCA055WJZZ



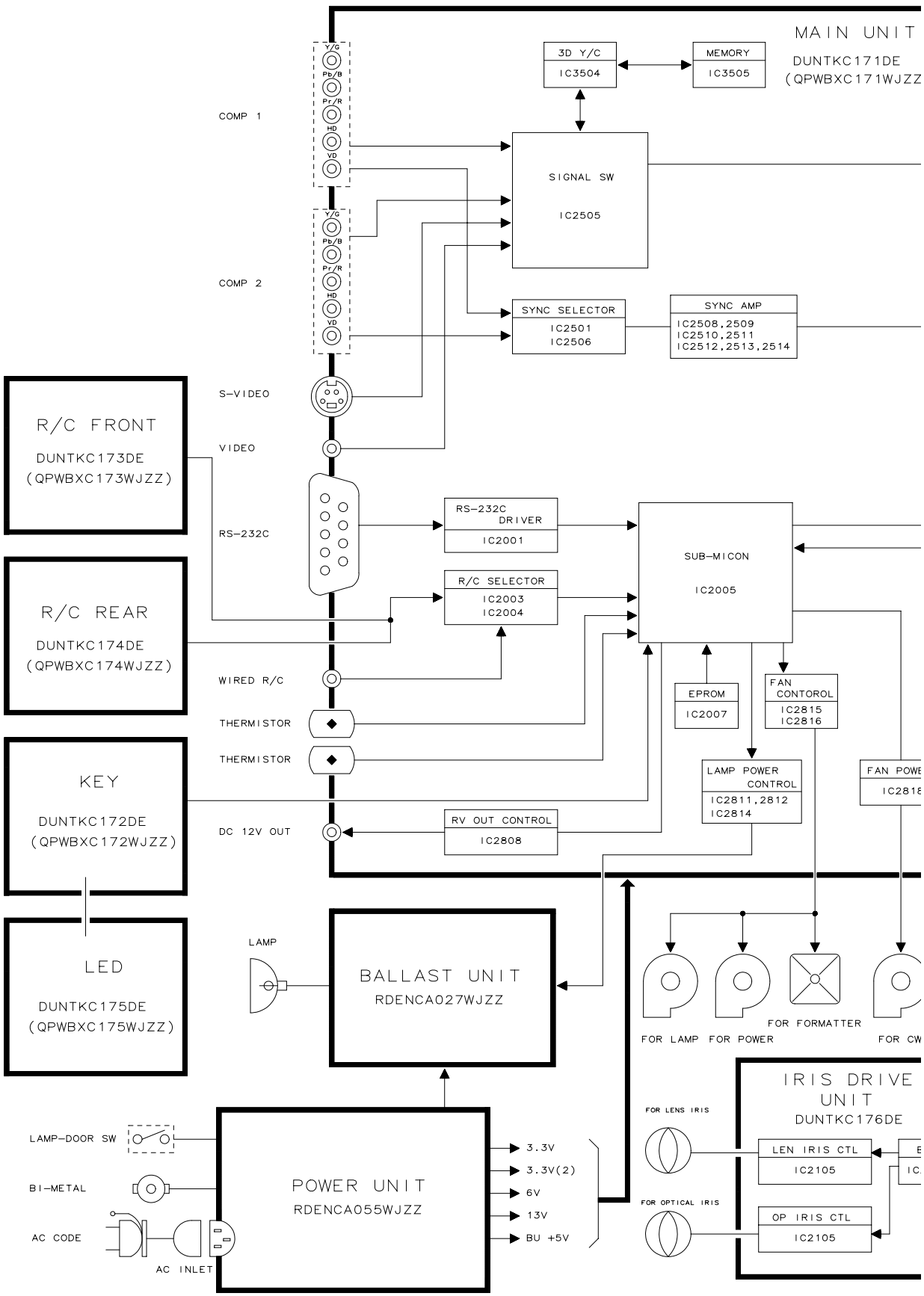

KEY UNIT
DUNTKC172DE01

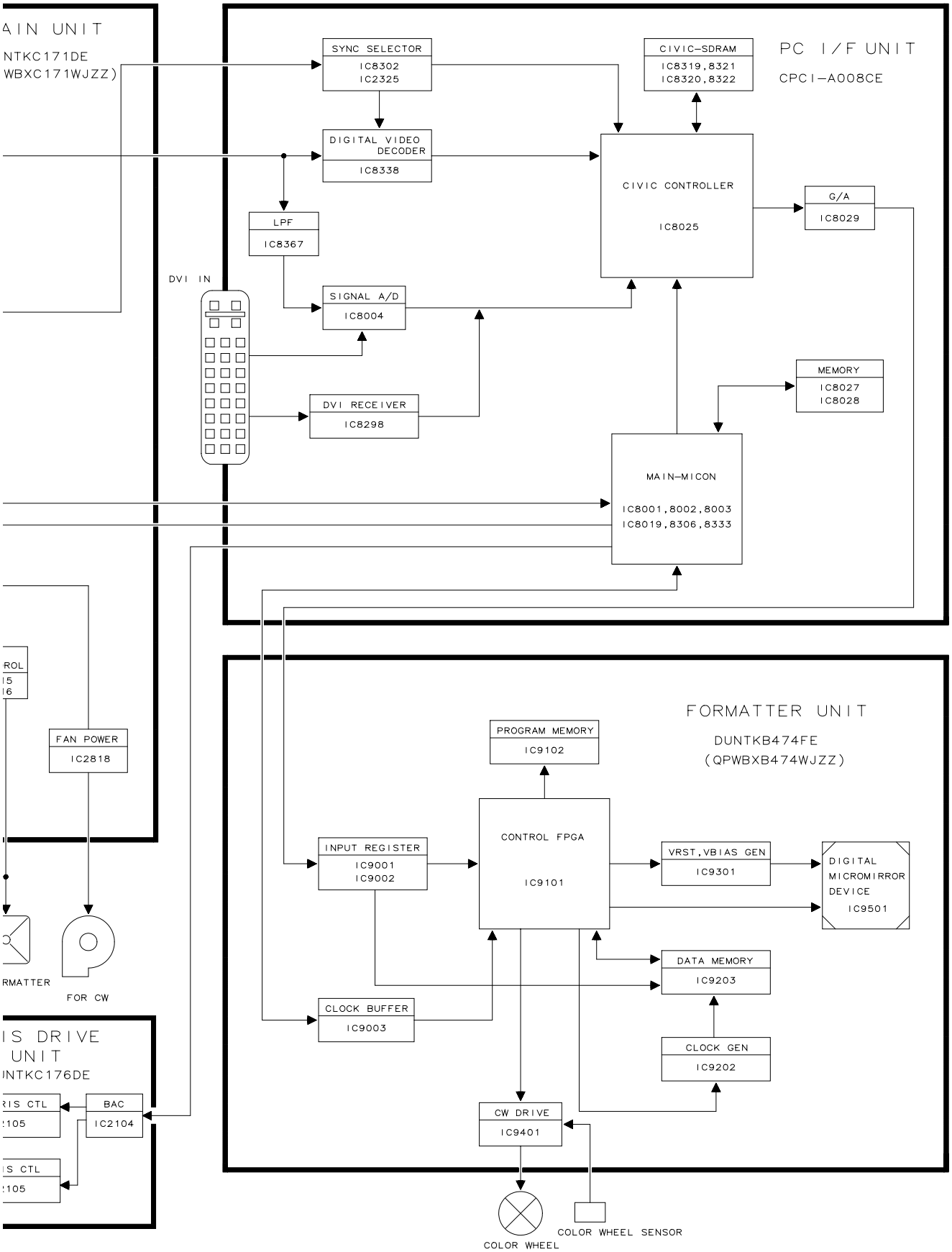



| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# BLOCK DIAGRAM / BLOCKSCHALTBILD

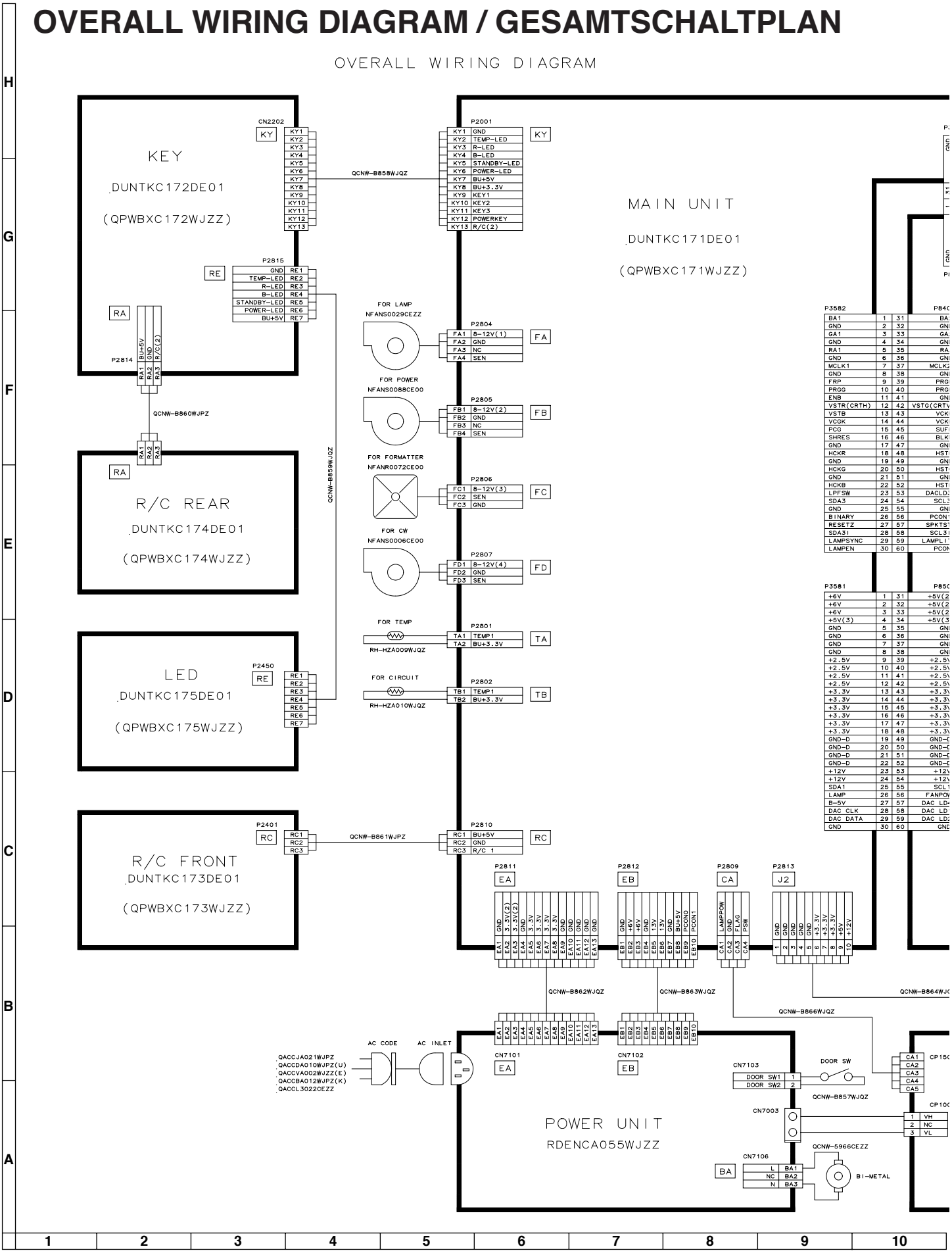
BLOCK DIAGRAM

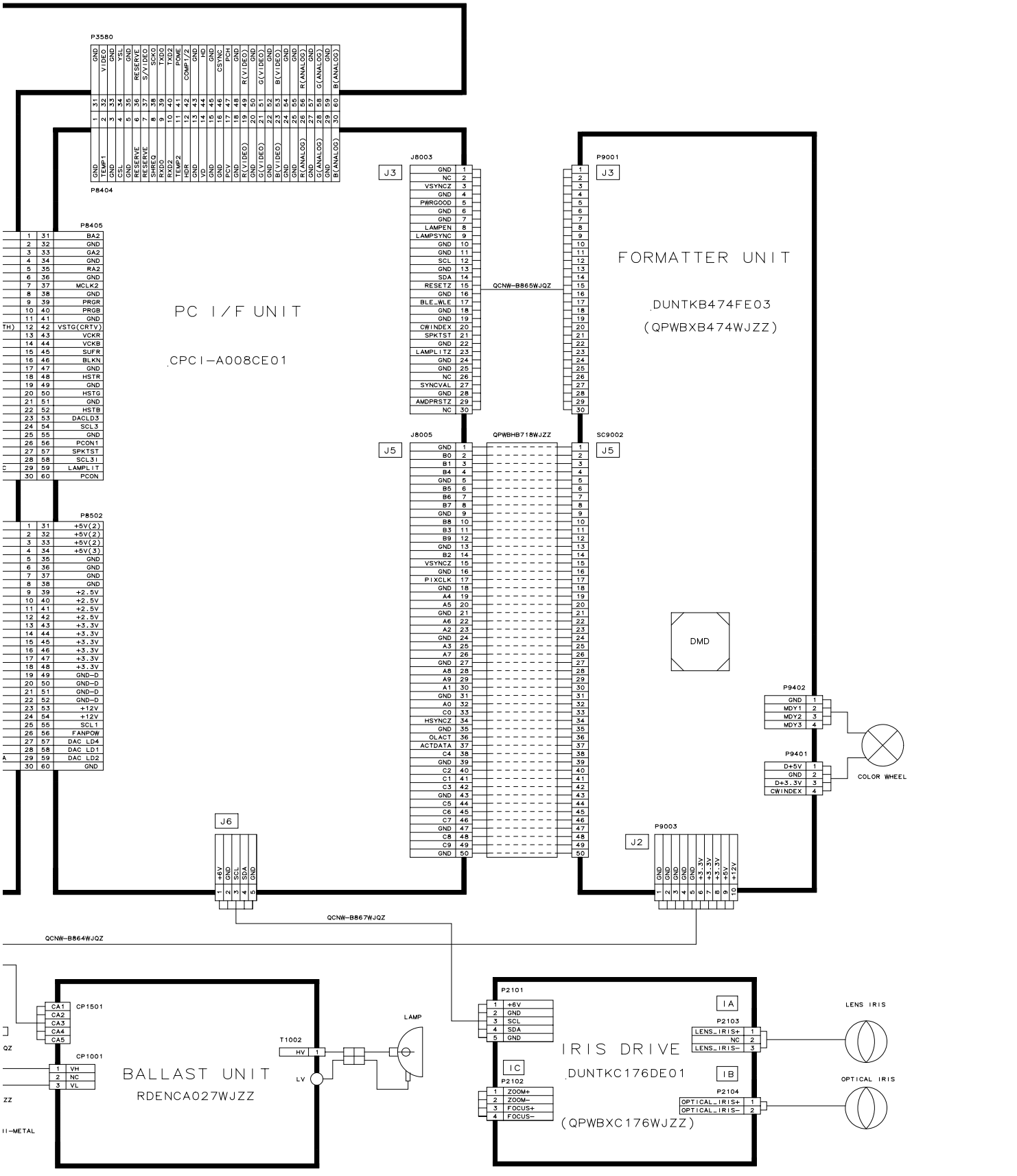





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# OVERALL WIRING DIAGRAM / GESAMTSCHALTPLAN




P3580
P8404
P8405
P8502
PC I/F UNIT
CPCI-A008CE01
J8003
P9001
FORMATTER UNIT
DUNTKB474FE03
(QPWBXB474WJZZ)
QCNW-B865WJQZ
J8005
QPWBHB718WJZZ
SC9002
DMD
P9402
P9401
COLOR WHEEL
P9003
J6
QCNW-B867WJQZ
QCNW-B864WJQZ
CP1501
CP1001
BALLAST UNIT
RDENCA027WJZZ
T1002
LAMP
P2101
IRIS DRIVE
DUNTKC176DE01
(QPWBXC176WJZZ)
P2102
P2103
P2104
LENS IRIS
OPTICAL IRIS

# DESCRIPTION OF SCHEMATIC DIAGRAM

## VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 220V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

## WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 220V. Signals are fed by a color bar signal generator for servicing purpose.

## INDICATION OF RESISTOR & CAPACITOR:

**RESISTOR**

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/10W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.
   - Ⓒ: Solid
   - Ⓢ: Oxide Film
   - Ⓝ: Metal Coating
   - Ⓦ: Cement
   - Ⓣ: Special

**CAPACITOR**

1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.
   - (ML): Mylar
   - (PF): Polypro Film
   - (TA): Tantalum
   - (ST): Styrol

**CAUTION:**
**This circuit diagram is original one, therefore there may be a slight difference from yours.**

***SAFETY NOTES:***

1. ***DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACEING PARTS.***
2. ***SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.***

***IMPORTANT SAFETY NOTICE:***

***PARTS MARKED WITH "⚠" ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.***

# BESCHREIBUNG DES SCHEMATISCHEN SCHALTPLANS

## SPANNUNGSMESSUNGEN:

1. Spannungen an den Prüfpunkten werden bei einer Netzspannung von 220V gemessen, Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt, und Spannungen werden mit einem Meßinstrument (20 kΩ/V) ermittelt.

## SIGNALFORMMESSUNGEN:

1. Die Wellenformen an den Testpunkten werden bei einer Netzspannung von 220V verfolgt. Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt.

## BEZEICHNUNG DES WIDERSTANDS UND KONDENSATORS:

**WIDERSTAND**

1. Die Widerstandseinheit "Ω" wird weggelassen. (K=kΩ=1000 Ω, M=MΩ)
2. Alle Widerstände haben ± 5%, sofern nicht anders angegeben.(J= ± 5%, F= ± 1%, D= ± 0.5%)
3. Alle Widerstände haben 1/10W, sofern nicht anders angegeben.
4. Alle Widerstände sind Kohletyp, sofern nicht anders angegeben.
   - Ⓒ: Solid
   - Ⓢ: Oxide Film
   - Ⓝ: Metal Coating
   - Ⓦ: Cement
   - Ⓣ: Special

**KONDENSATOR**

1. Die Kapazitätseinheit ist μF, sofern nicht anders angegeben. (P=pF=μμF).
2. Alle Kondensatoren haben 50V, sofern nicht anders angegeben.
3. Alle Kondensatoren sind Keramiktyp, sofern nicht anders angegeben.
   - (ML): Mylar
   - (PF): Polyprofilm
   - (TA): Tantal
   - (ST): Styrol

**ACHTUNG:**
**Bei diesem Schaltplan handelt es sich um den ursprünglichen. Esönnen daher geringfügige Unterschiede zu dem Ihrem bestehen.**

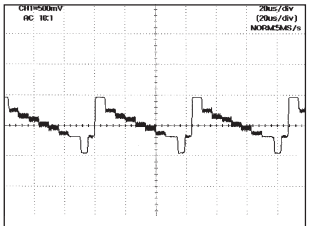
***SICHERHEITSANMERKUNGEN:***

1. ***VOR DEM AUSWECHSELN VON TEILEN MUSS UNBEDINGT NETZSTECKER AUS DER NETZSTECKDOSE GEZOGEN WERDEN.***
2. ***DIE WARMEABLEITER DER HALBLEITER SOLLTEN BEIM BETRIEB DES CHASSIS ALS MÖGLICHE URSACHEN VON GEFÄHRLICHEN ELEKTRISCHEN SCHLÄGEN BETRACHTET WERDEN.***

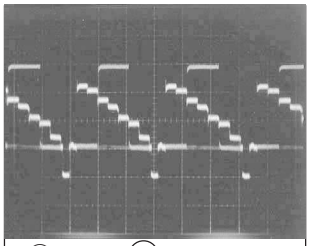
***WICHTIGE SICHERHEITSANMERKUNGEN:***

***MIT "⚠"( )BEZEICHNETEN TEILE SIND BESONDERS WICHTIG FÜR DIE AUFRECHTERHALTUNG DER SICHERHEIT . BEIM WECHDIESER TEILE SOLLTEN DIE VORGESCHRIEBENEN TEILE IMMER VERWENDET WERDEN, UM SOWOHL DIE SICHERHEIT ALS AUCH DIE LEISTUNG DES GERÄTES AUFRECHTZUERHALTEN.***

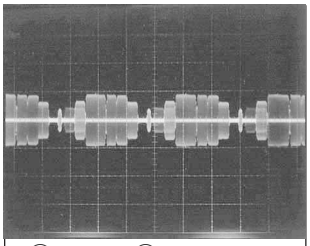
# WAVEFORMS / WELLENFORMEN



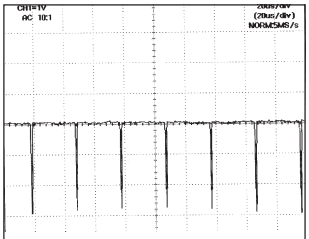
① P3580 (32)
(VIDEO AC)
H : 20μ sec/div
V : 500mV/div



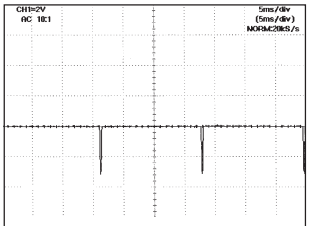
② P3580 (34)
(Y-signal)
H : 10μ sec/div
V : 0.2V/div



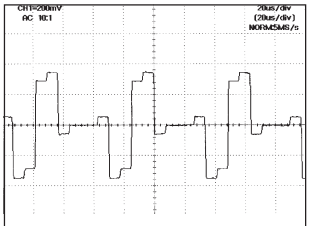
③ P3580 (4)
(CHROMA signal)
H : 10μ sec/div
V : 0.2V/div



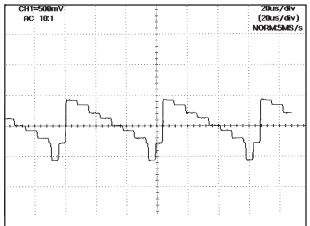
④ P3580 (47)
(RGB)
H : 20μ sec/div
V : 1V/div



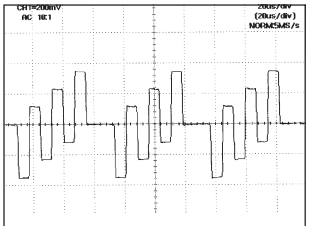
⑤ P3580 (17)
(RGB)
H : 5m sec/div
V : 2V/div



⑥ P3580 (49)
(RGB AC)
H : 20μ sec/div
V : 200mV/div

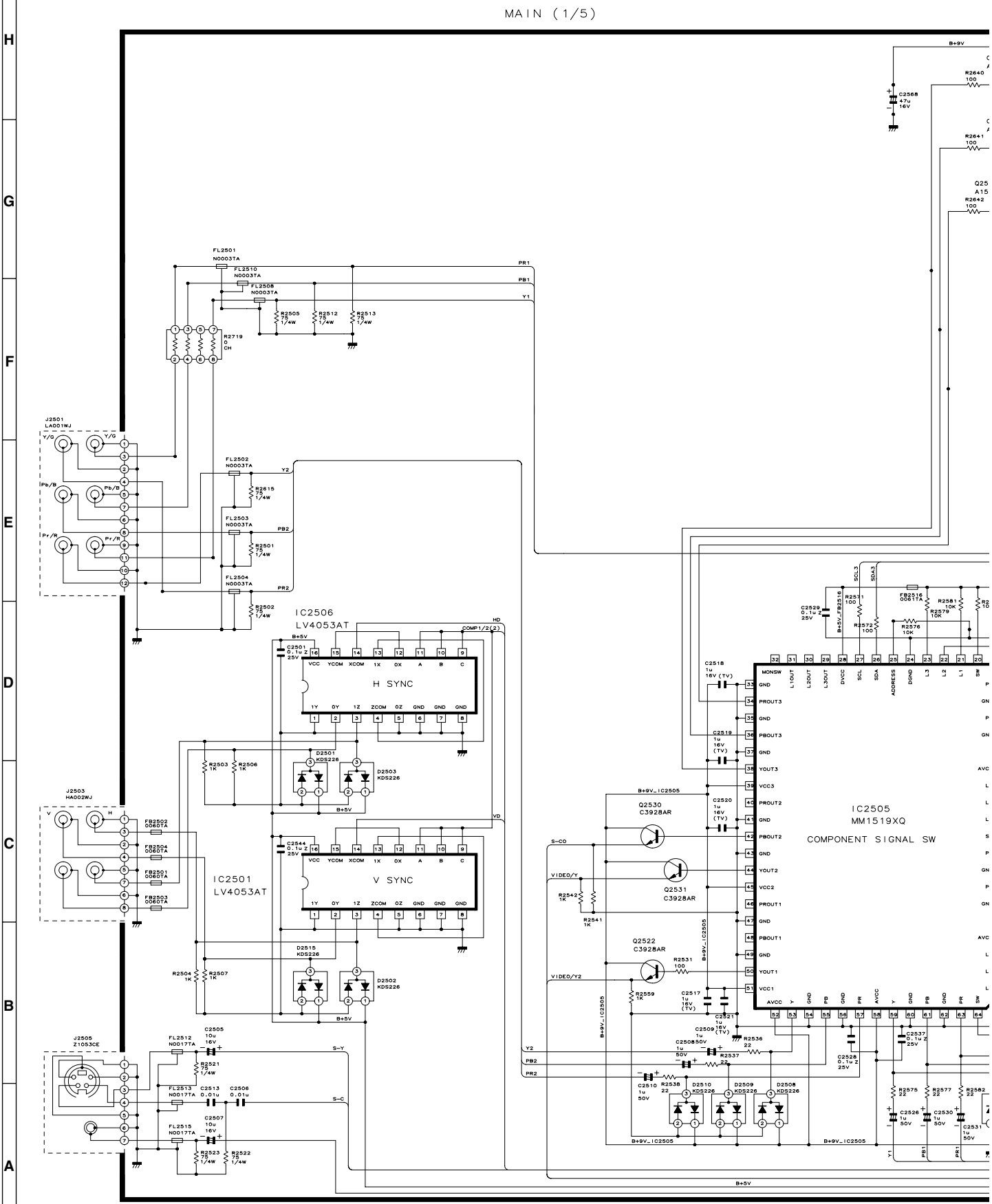


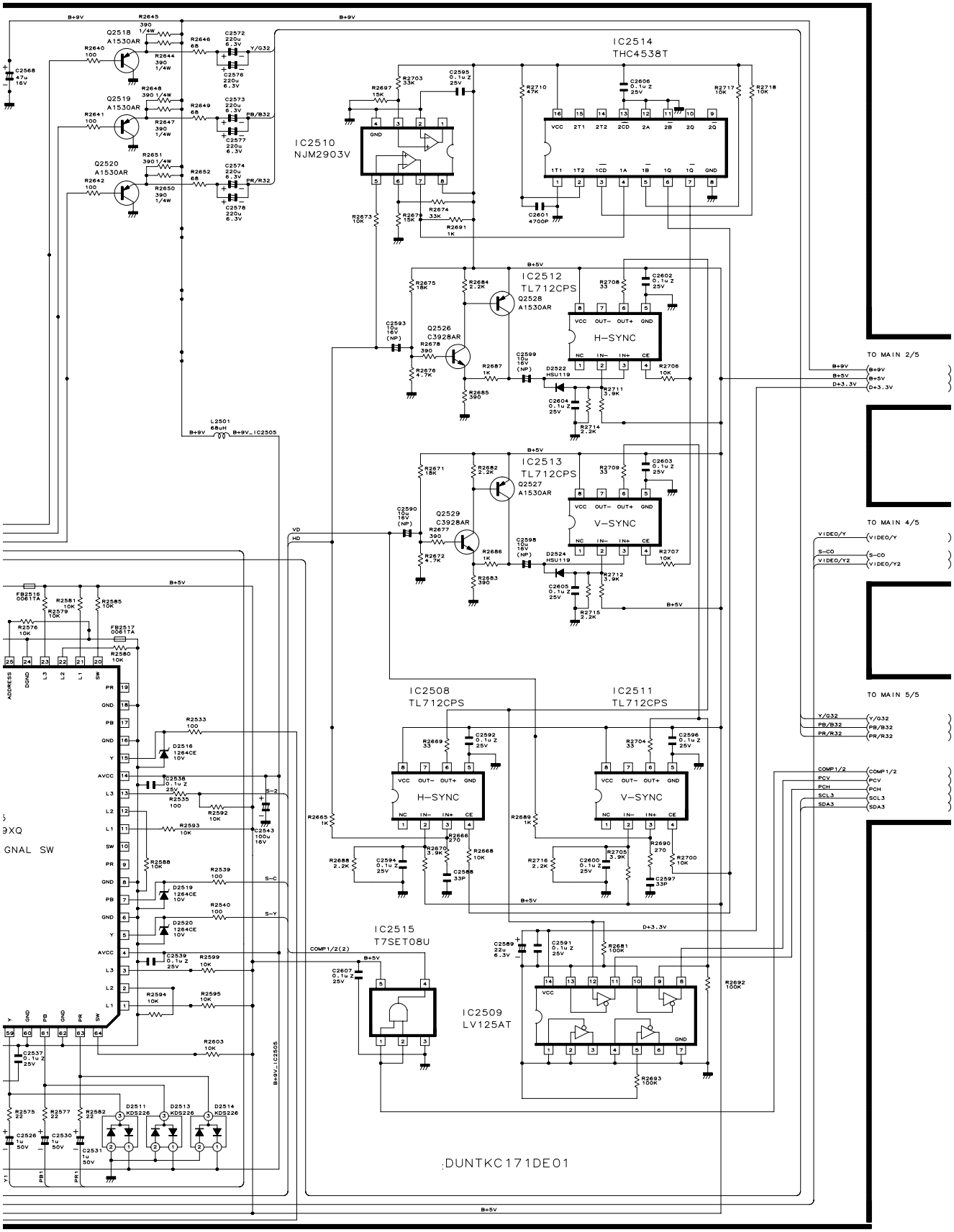
⑦ P3580 (51)
(RGB AC)
H : 20μ sec/div
V : 500mV/div



⑧ P3580 (53)
(RGB AC)
H : 20μ sec/div
V : 200mV/div

# ■ MAIN UNIT / HAUPT-EINHEIT -1/5

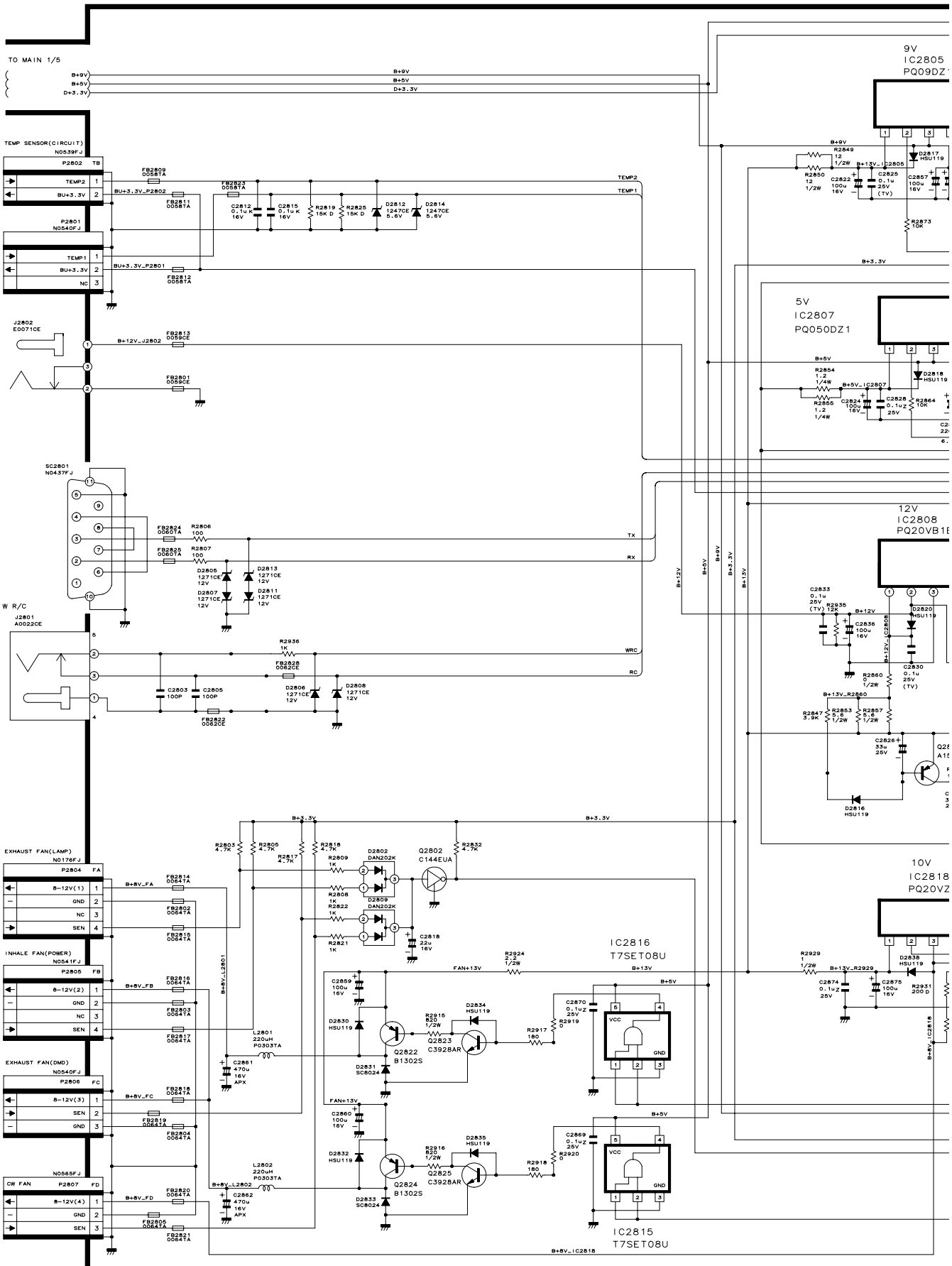


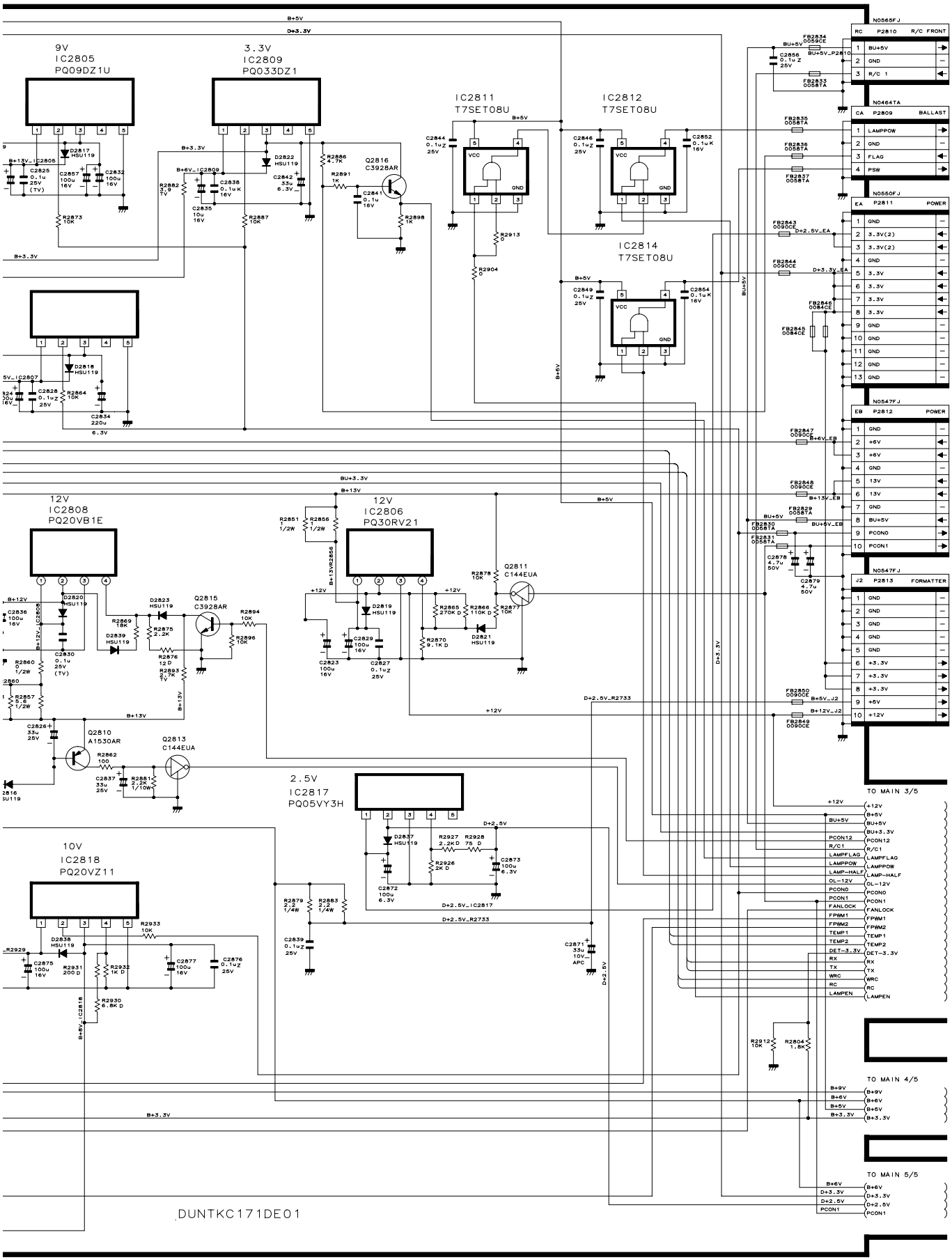



| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# ■ MAIN UNIT / HAUPT-EINHEIT -2/5

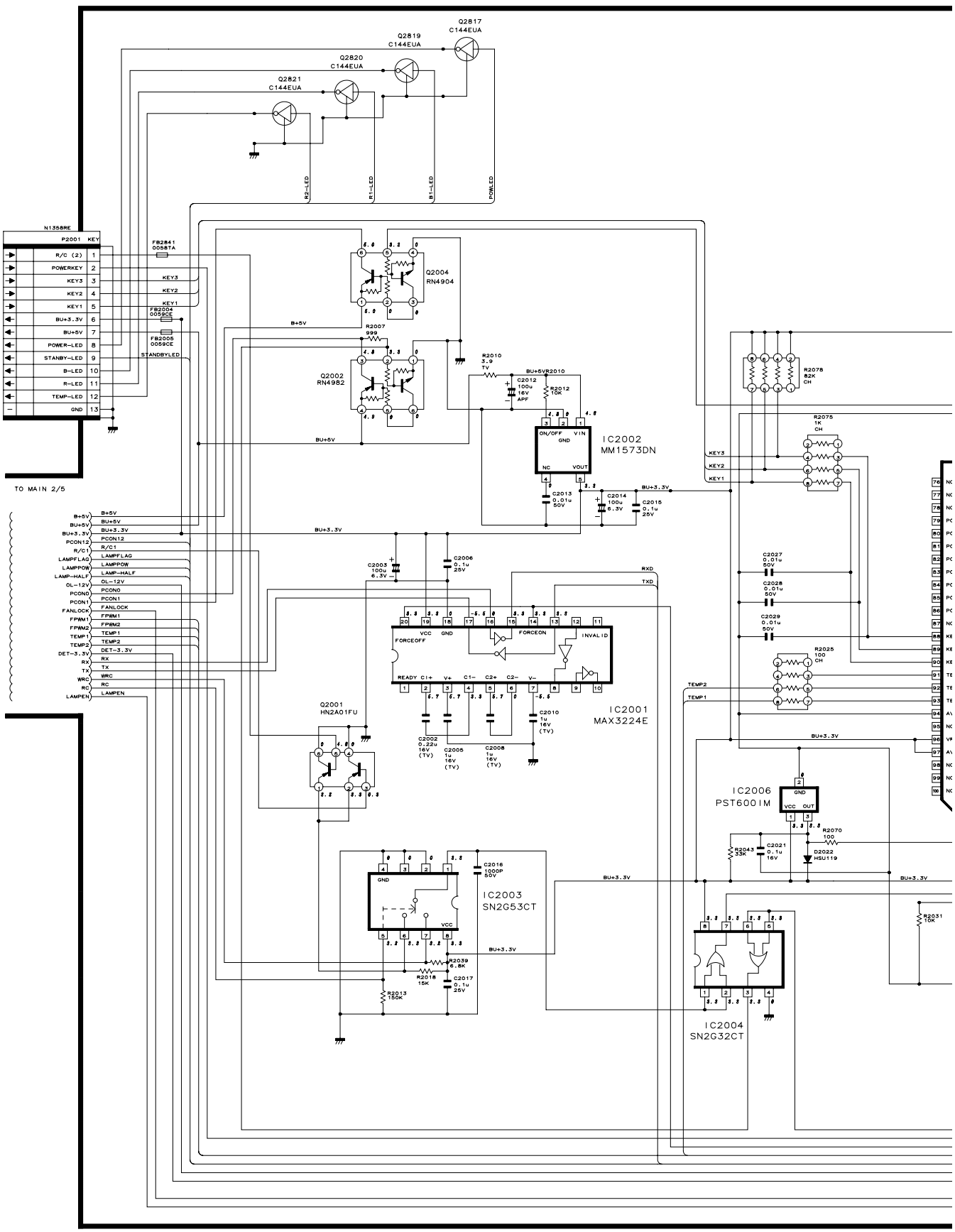
MAIN (2/5)

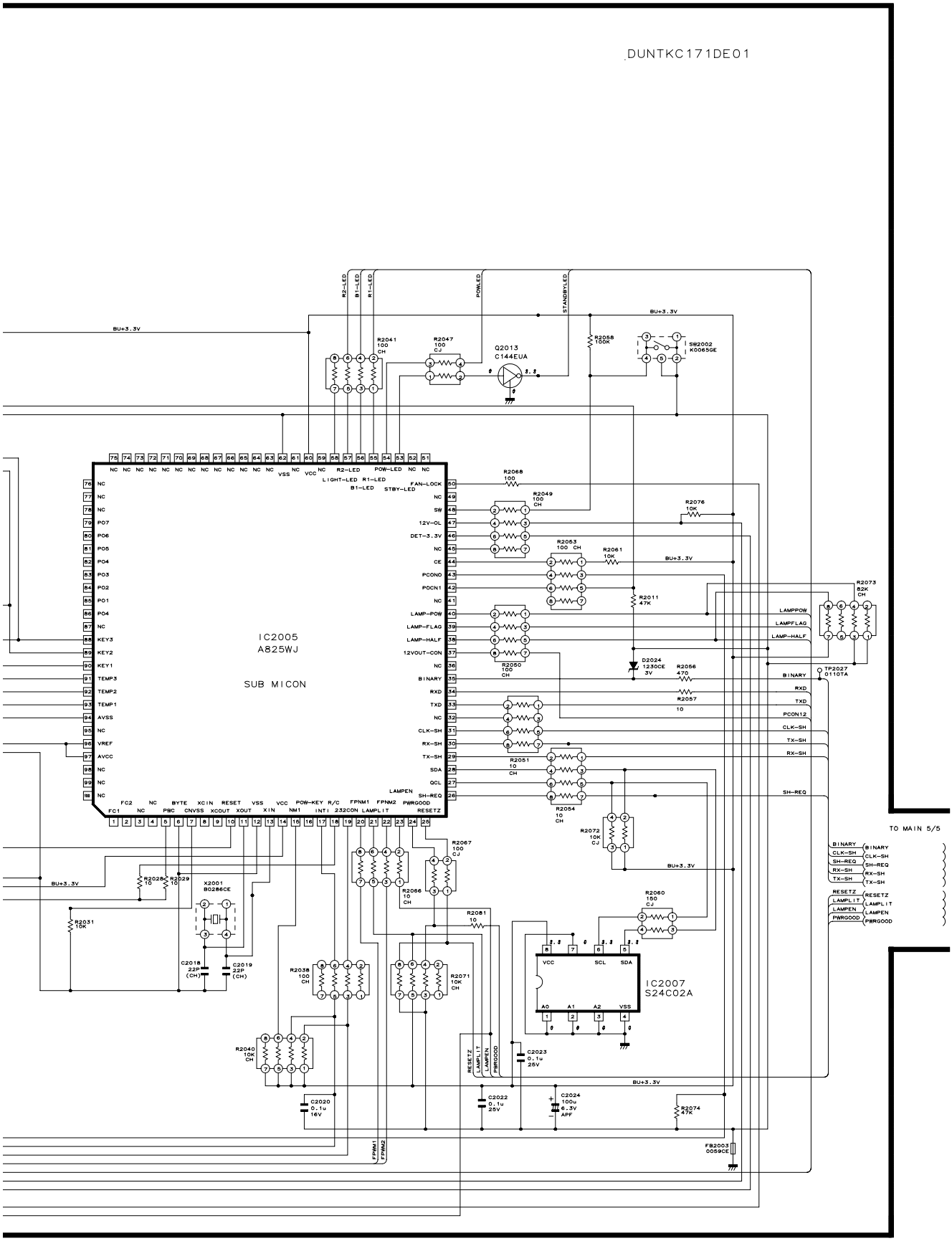





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

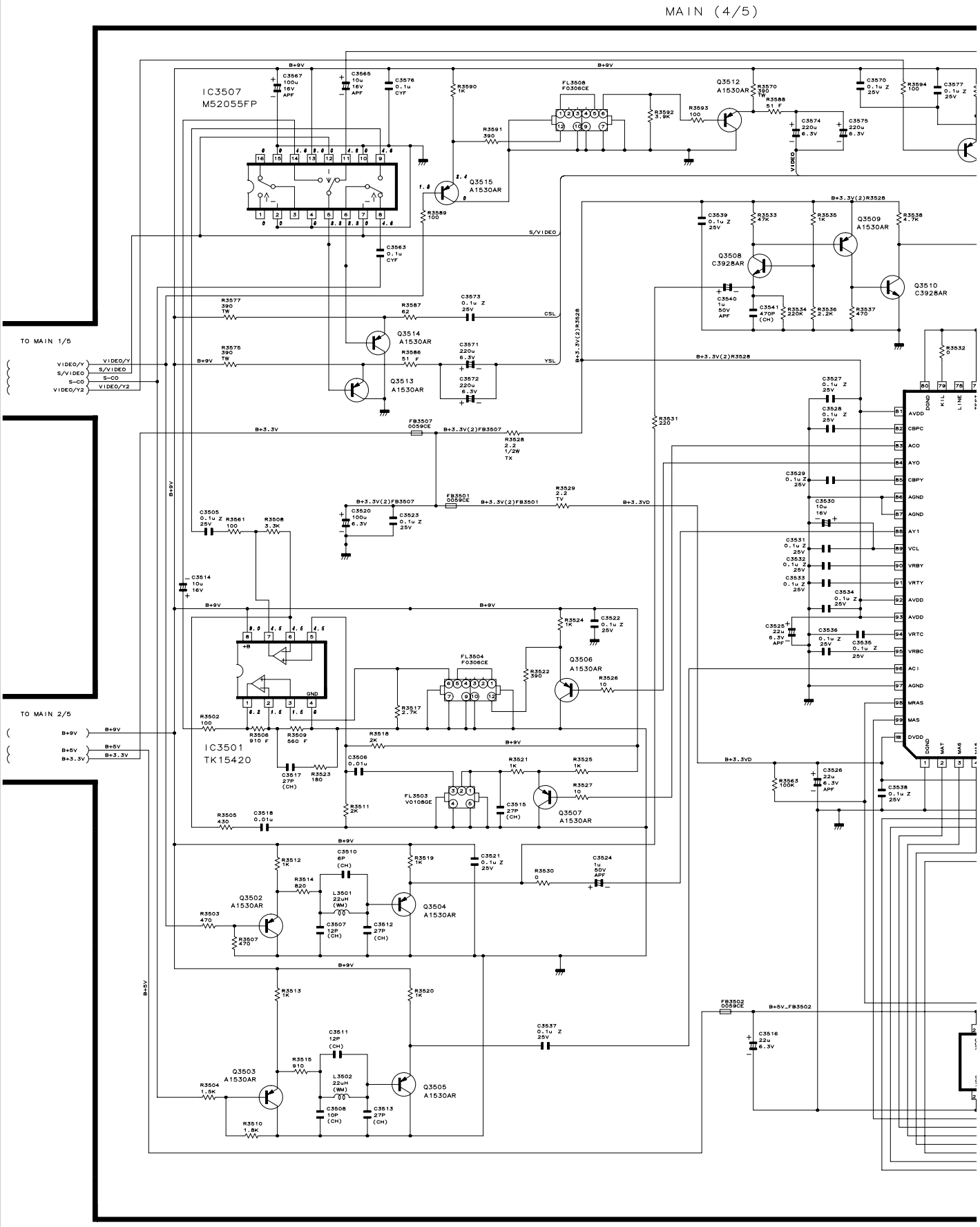
# ■ MAIN UNIT / HAUPT-EINHEIT -3/5

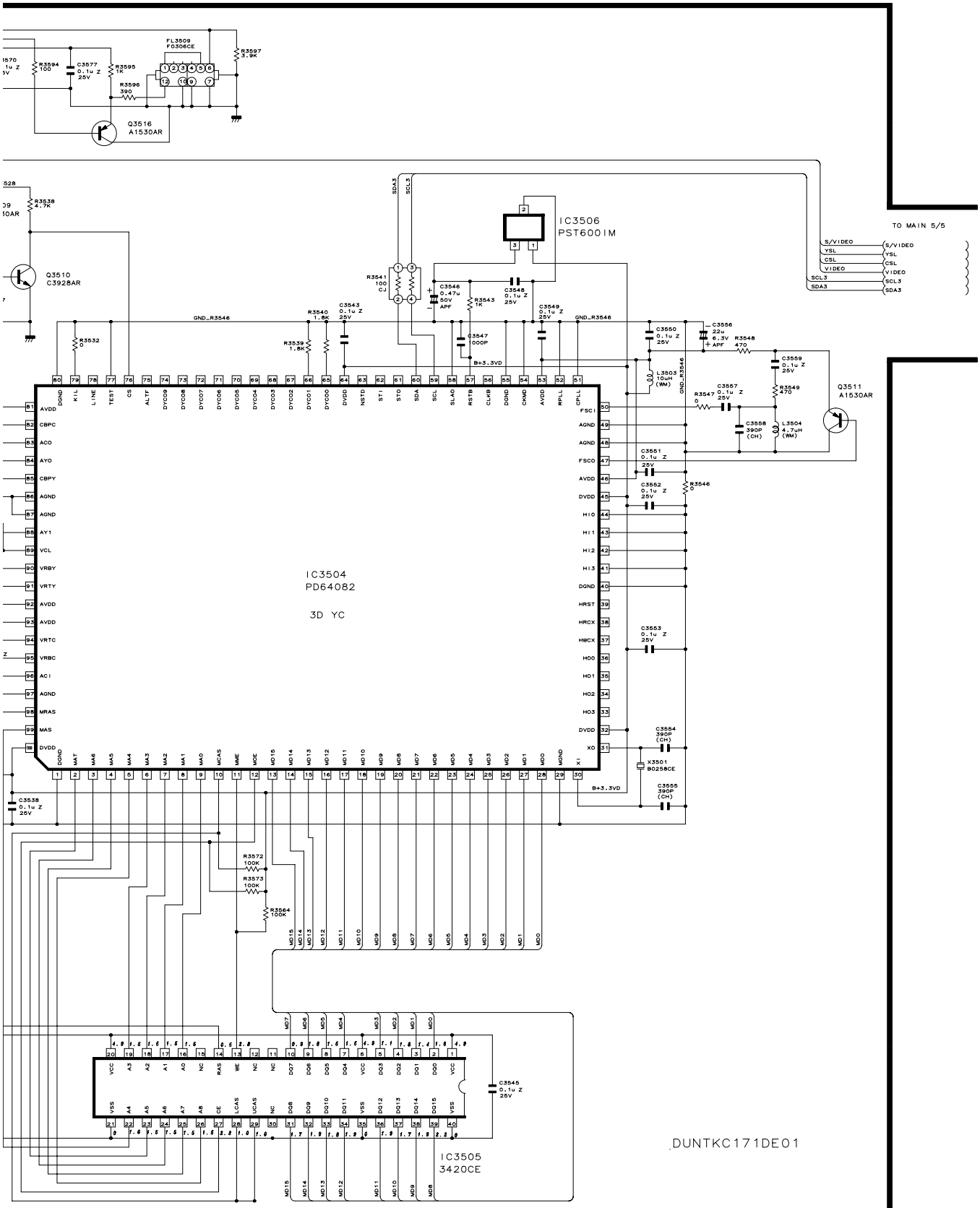





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# ■ MAIN UNIT / HAUPT-EINHEIT -4/5

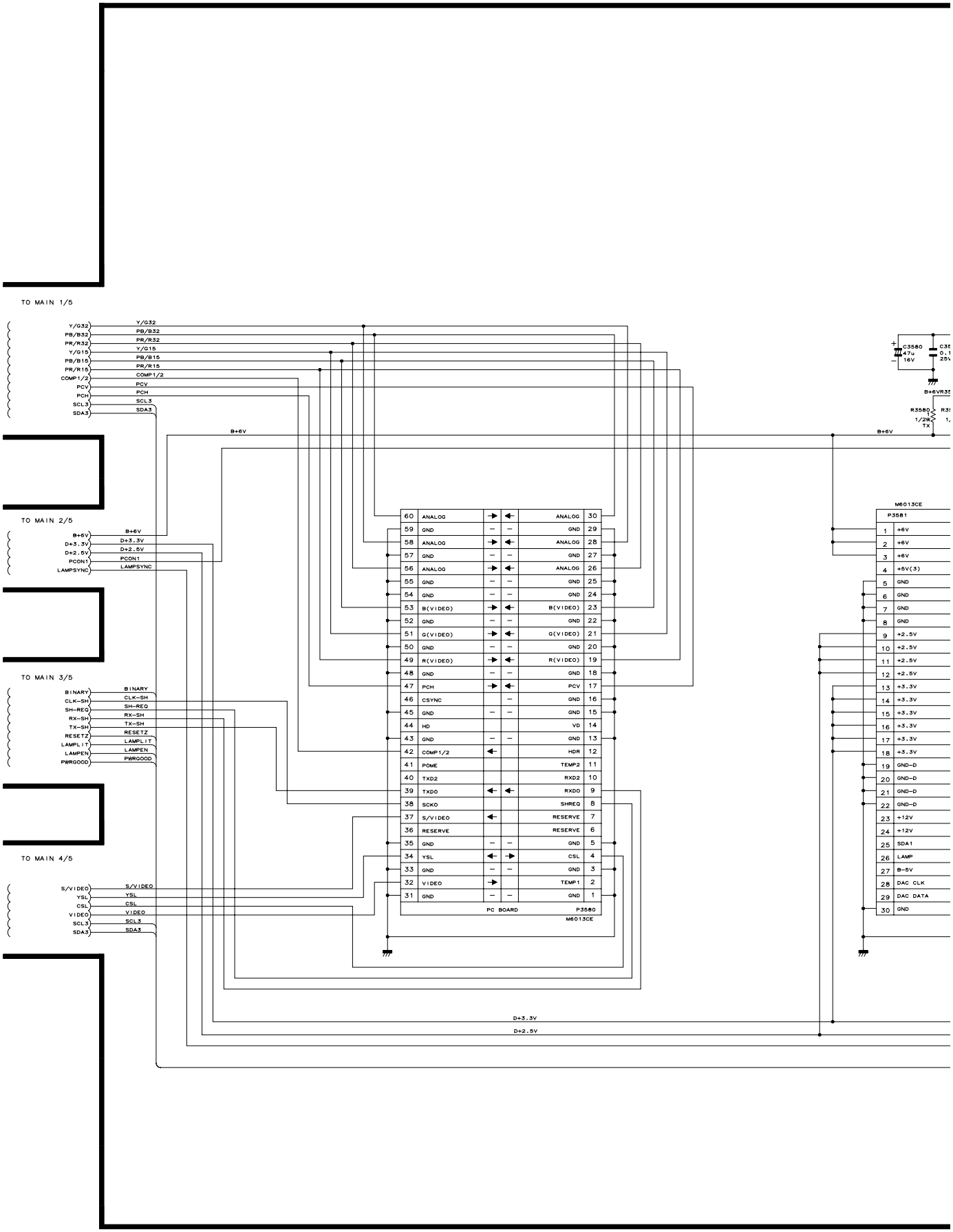




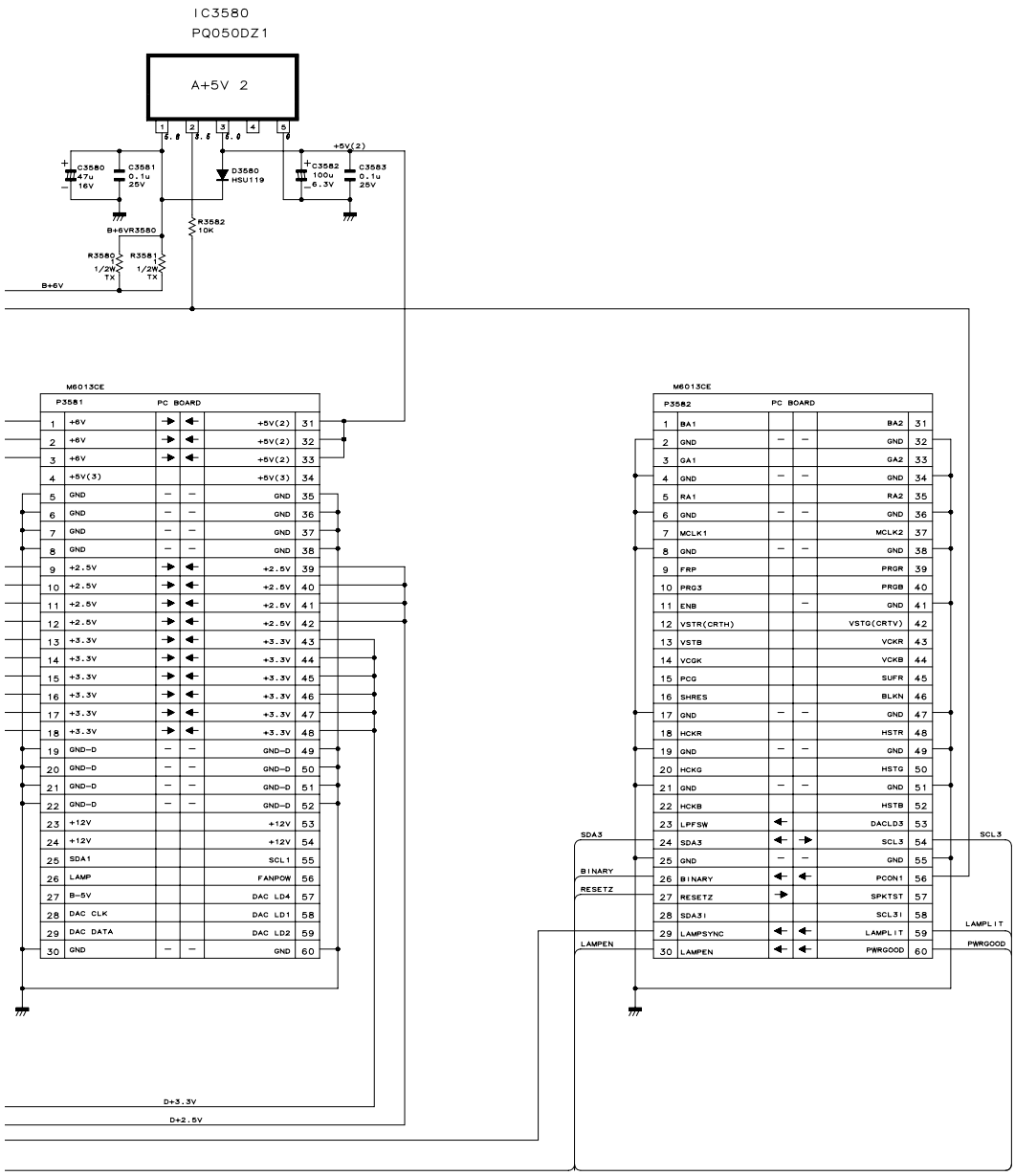

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# ■ MAIN UNIT / HAUPT-EINHEIT -5/5

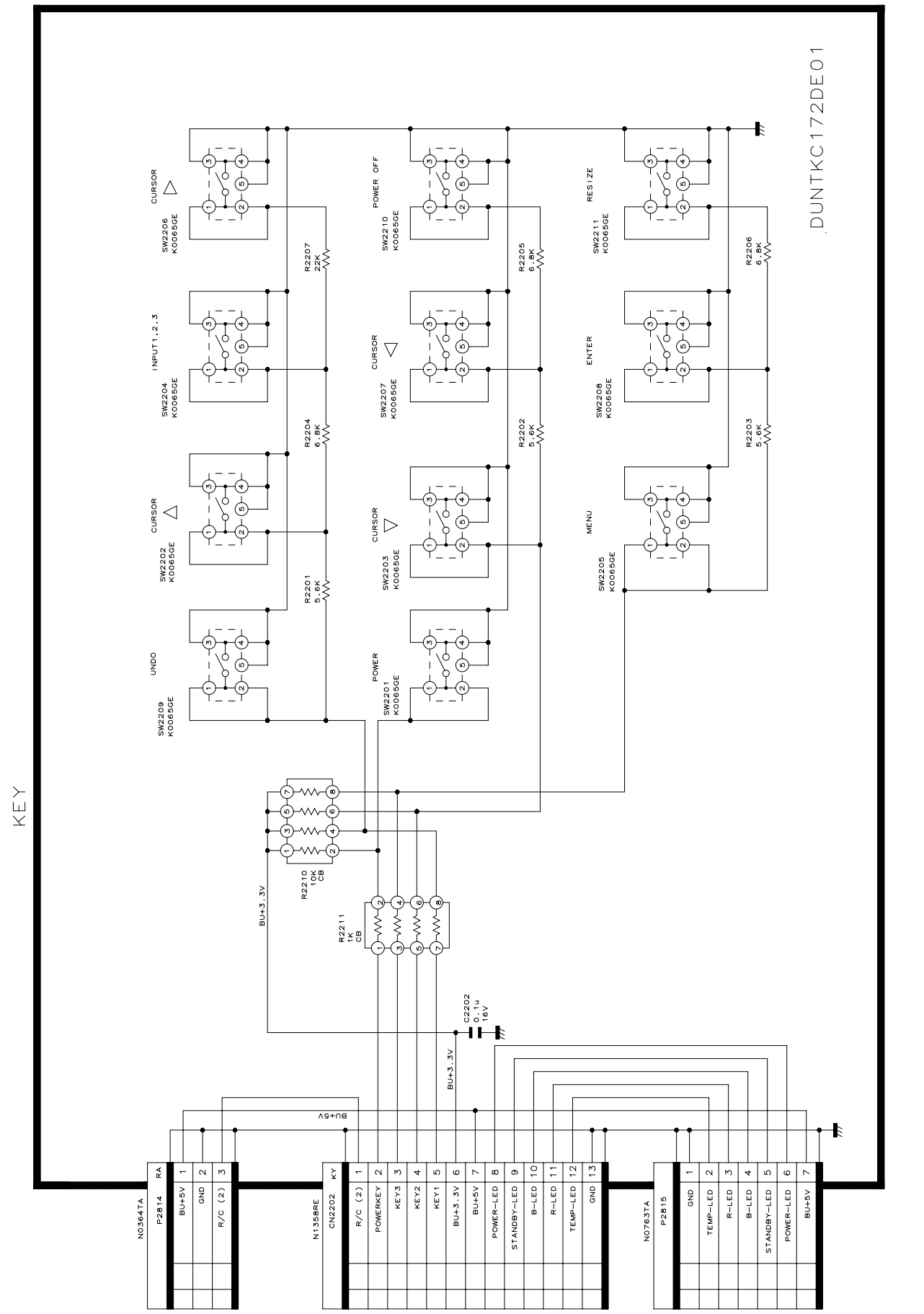
MAIN (5/5)



DUNTKC171DE01

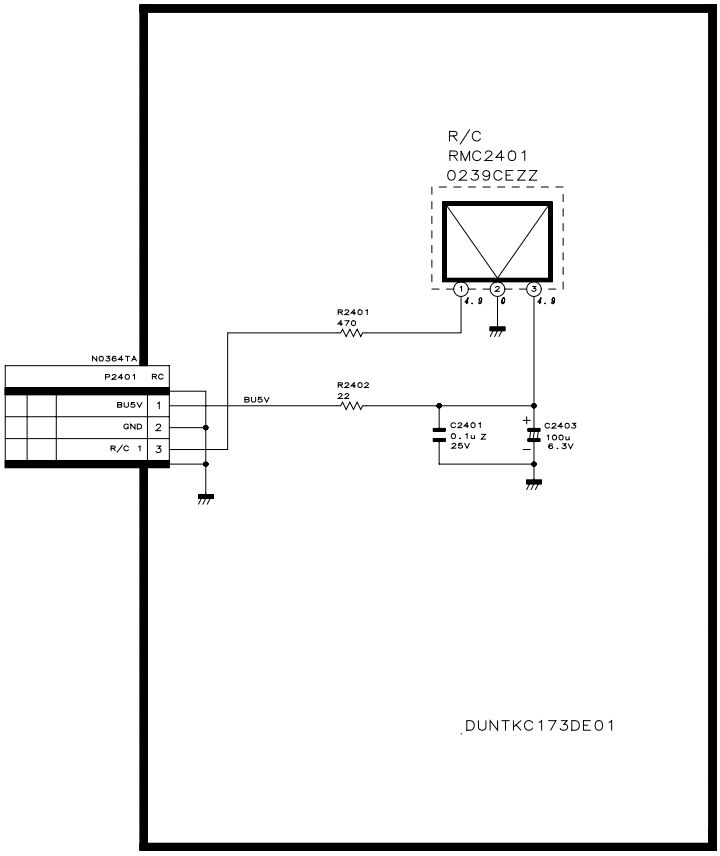


## ■ KEY UNIT / TASTE-EINHEIT



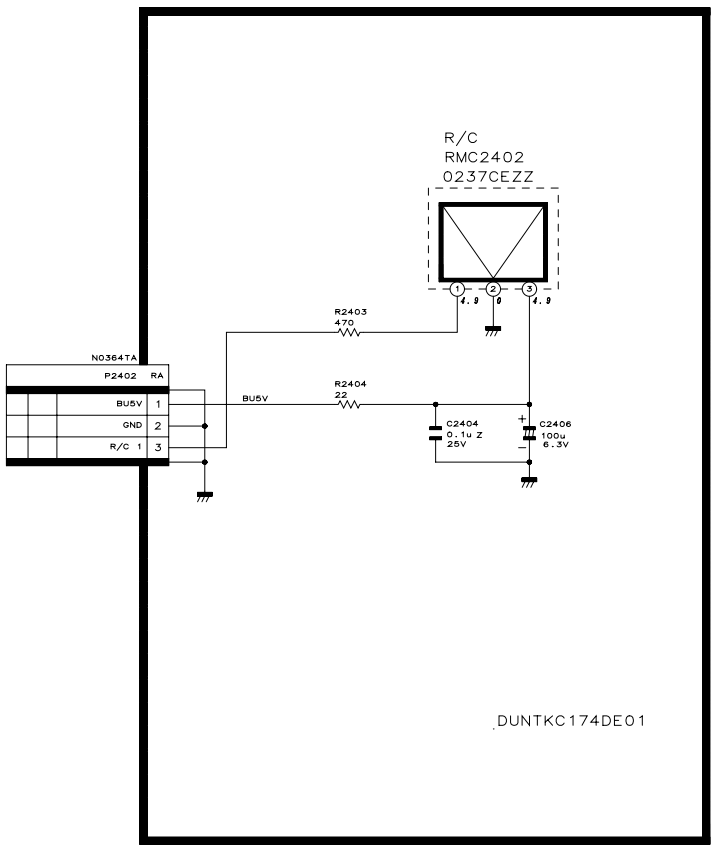
## ■ R/C RECEIVER (Front) Unit / EINLASSEINHEIT (Vorder)

R/C FRONT

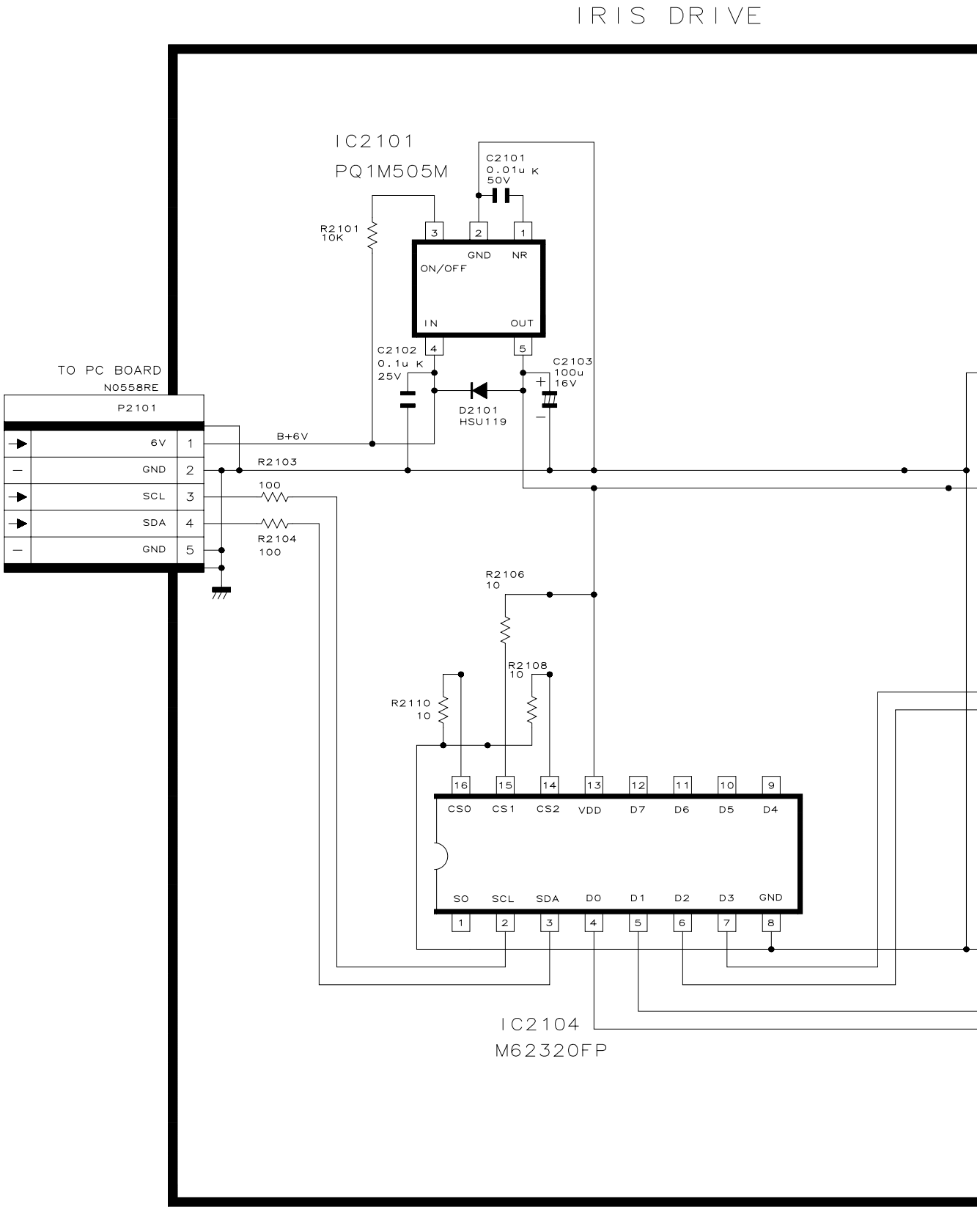


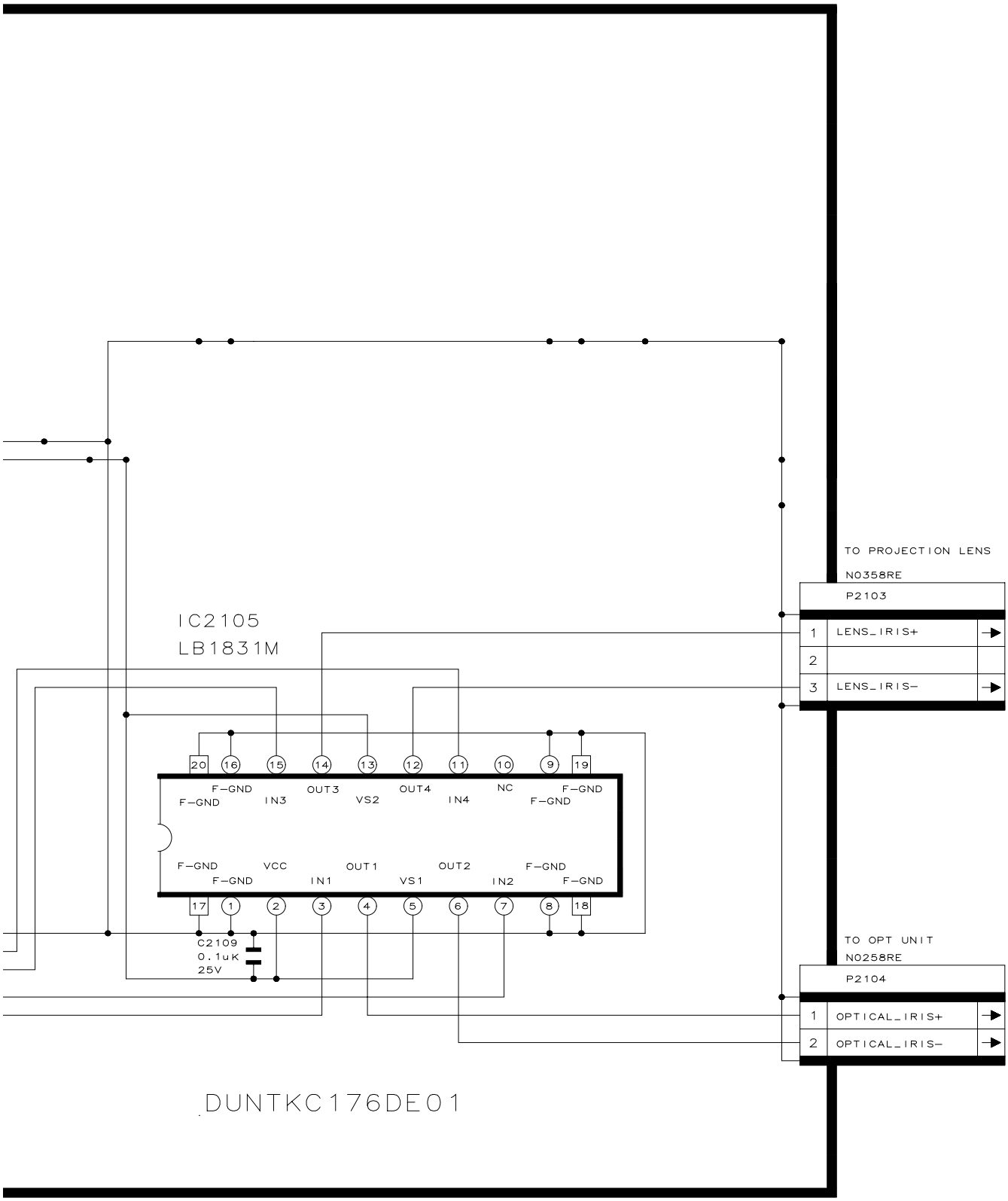

## ■ R/C RECEIVER (Rear) Unit / EINLASSEINHEIT (Hinter)

R/C REAR



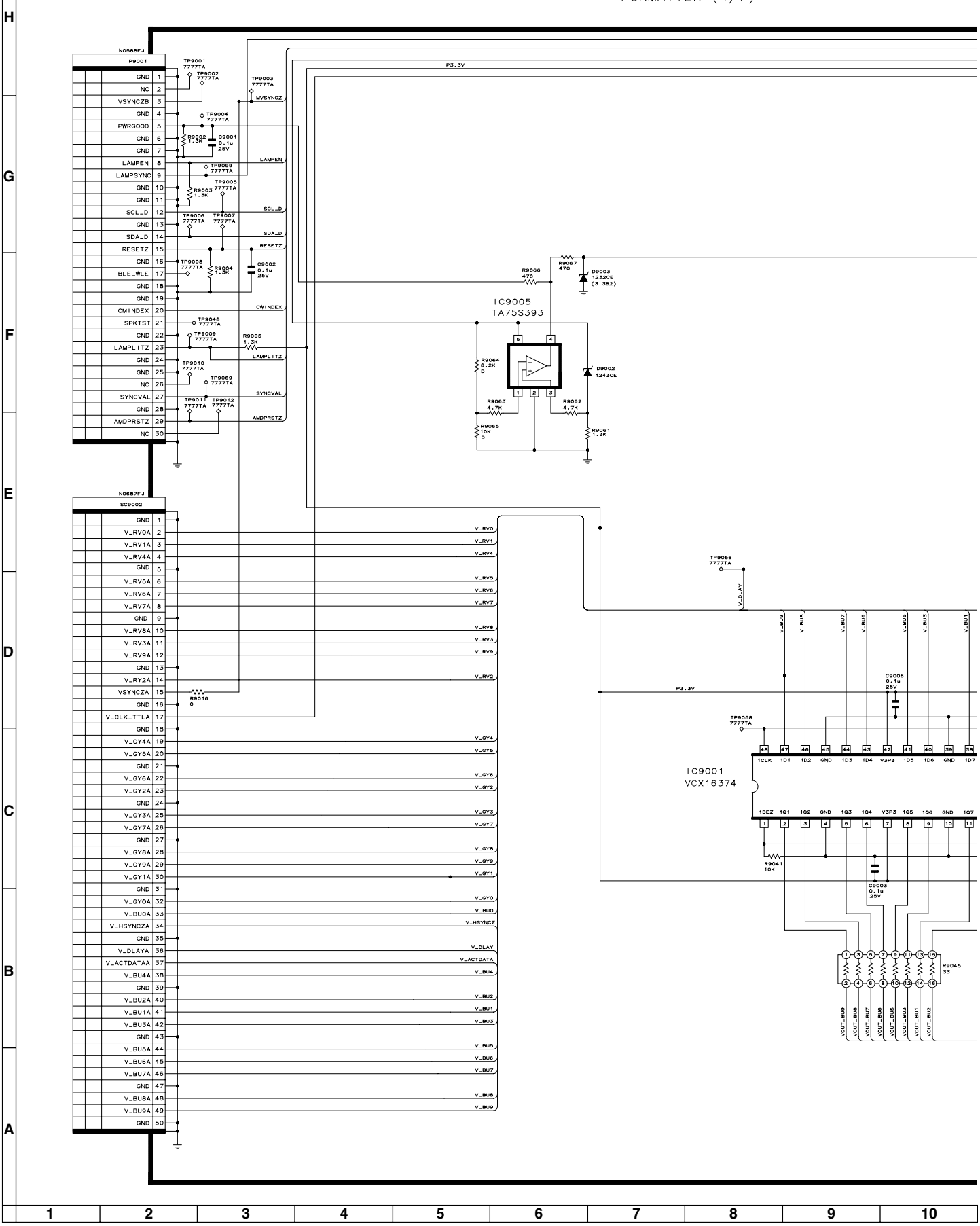
## ■ IRIS DRIVE UNIT/ BLENDENTREIBER-EINHEIT

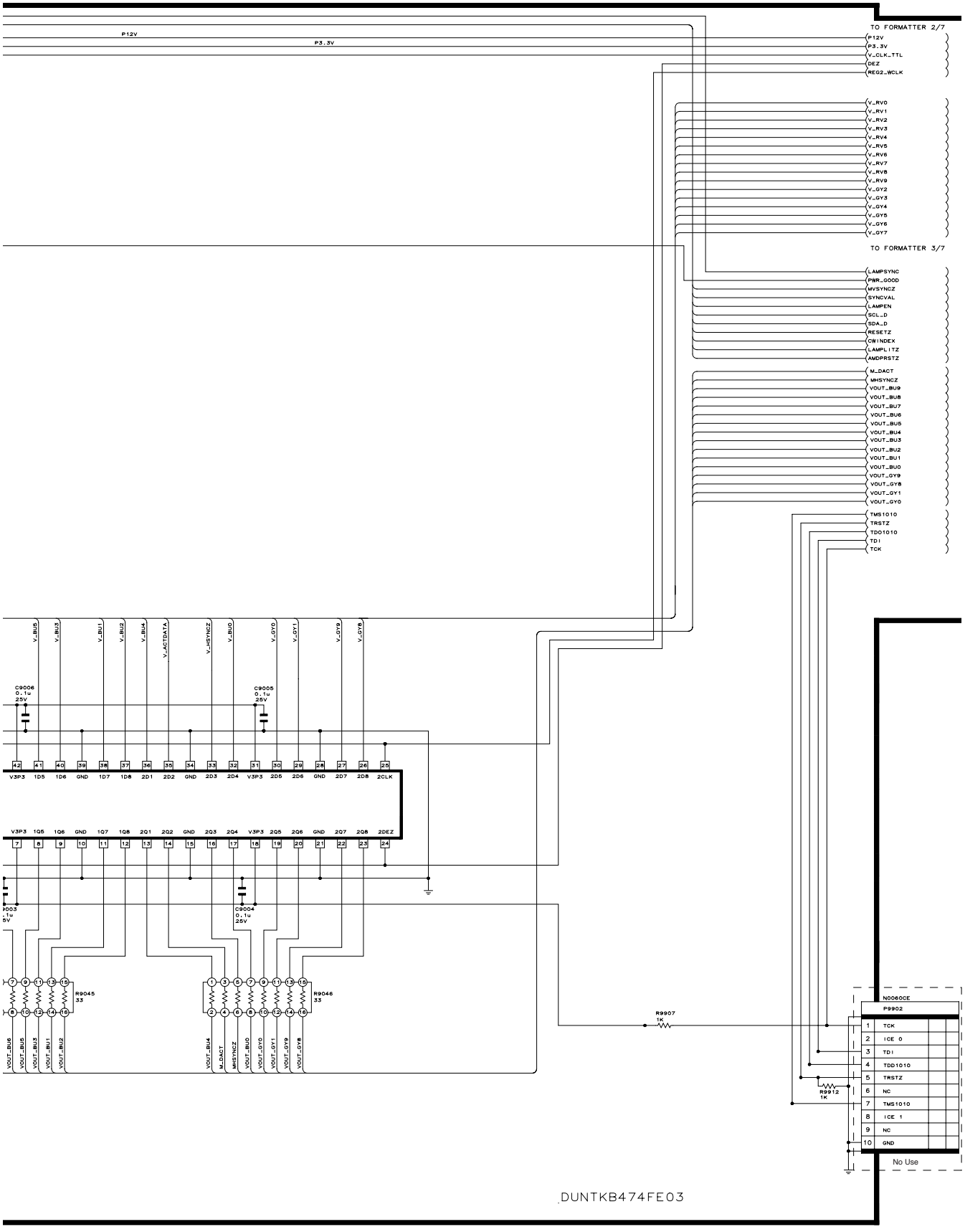





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

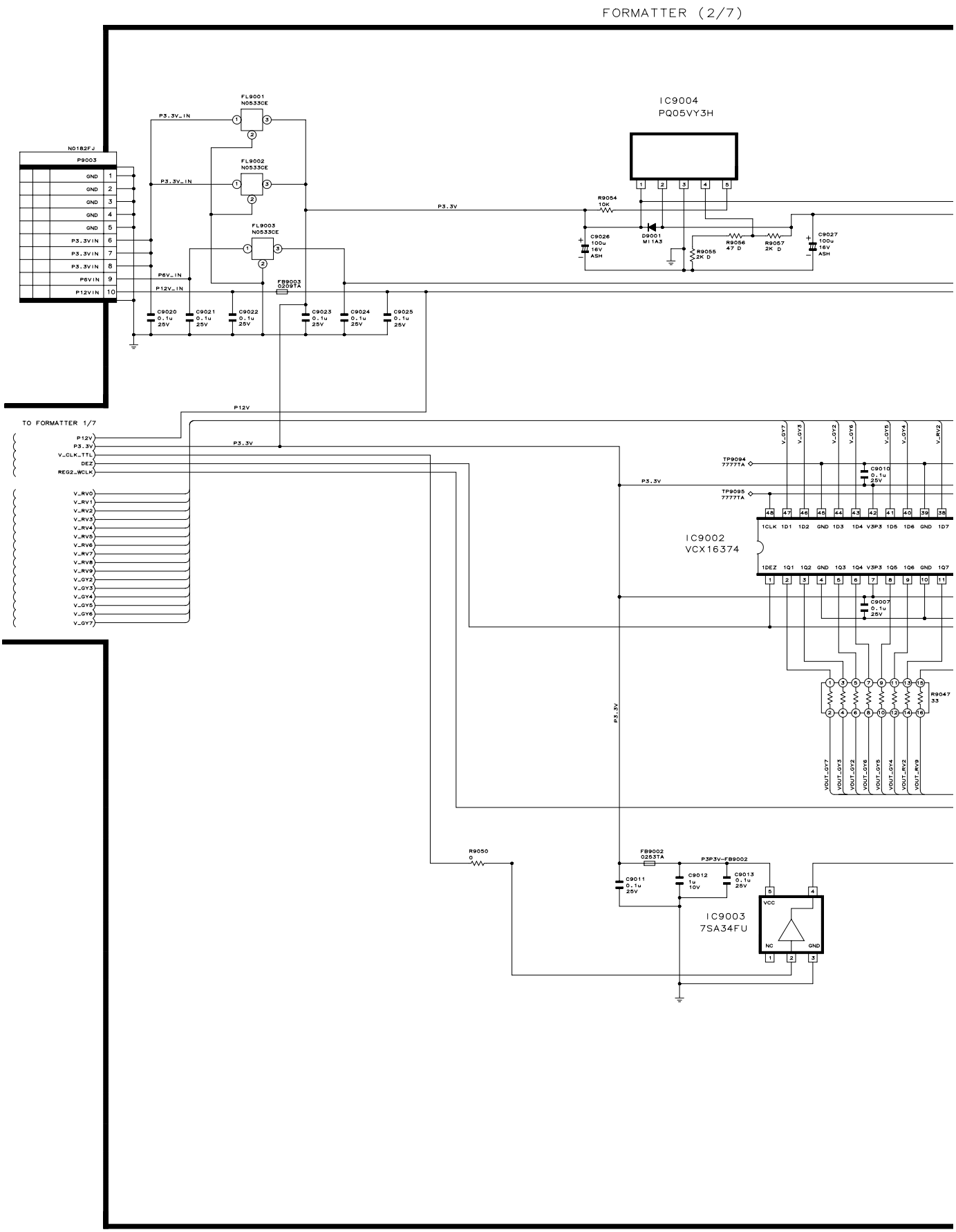
# ■ FORMATTER UNIT / FORMATTER-EINHEIT-1/7

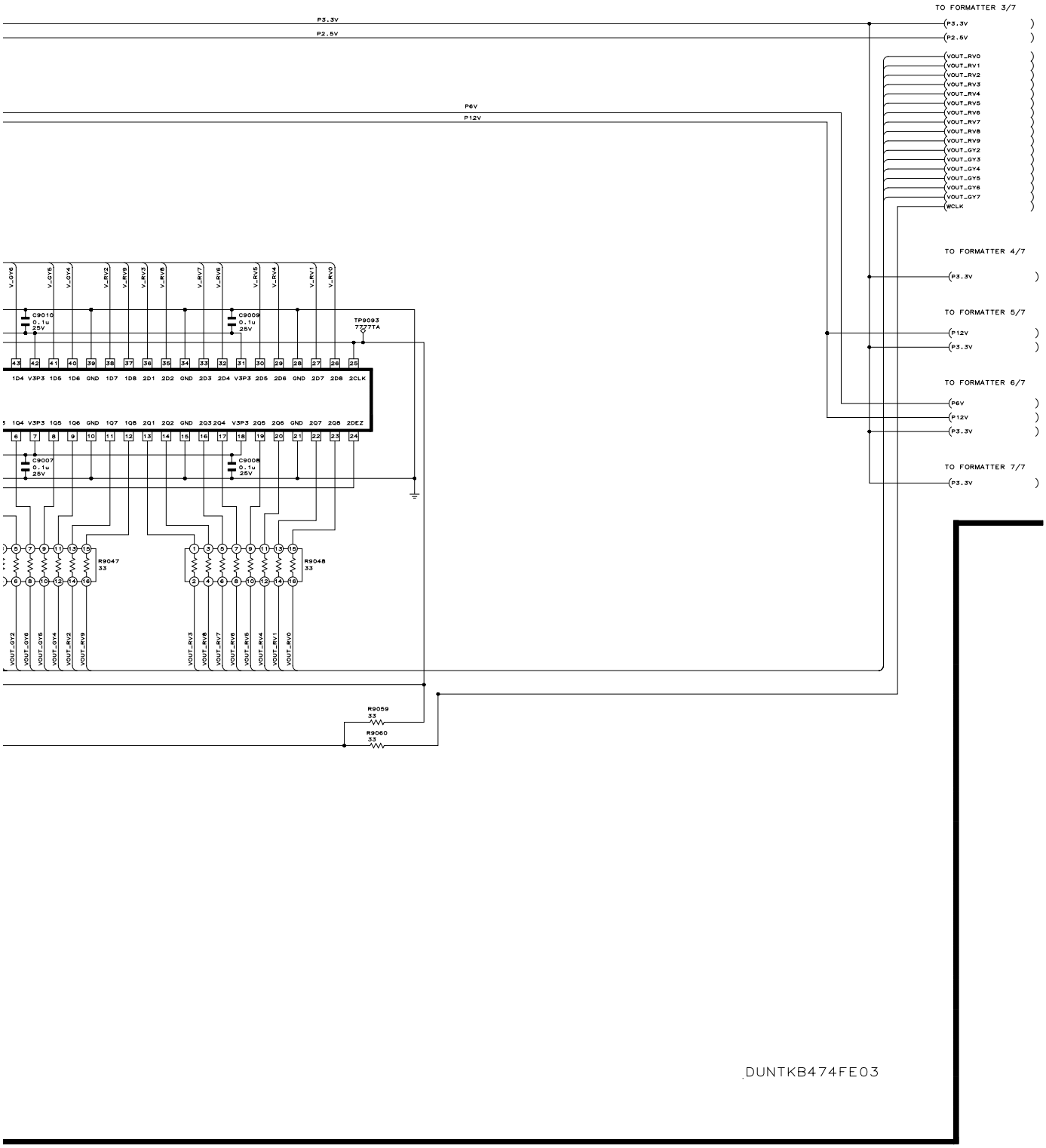





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

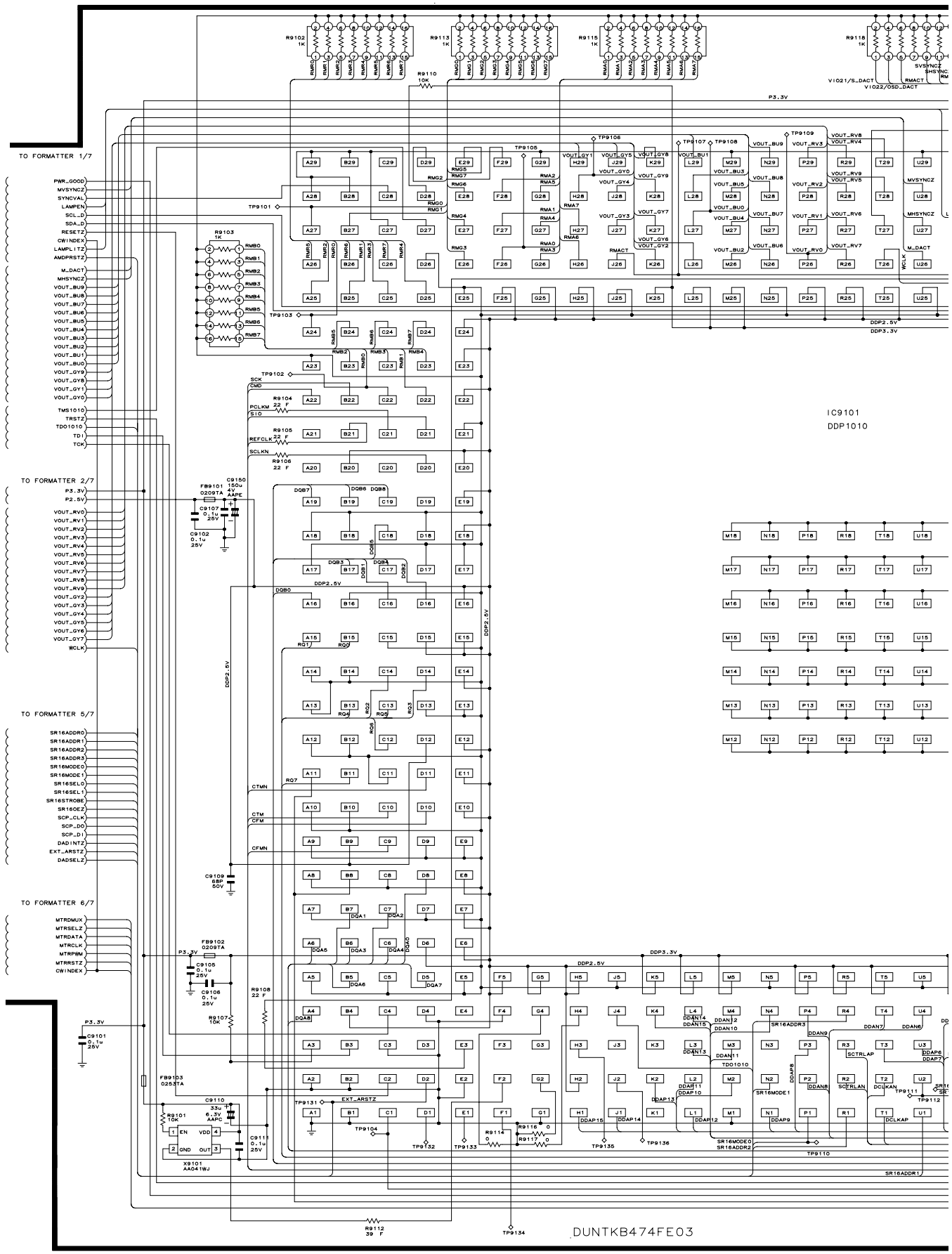
# ■ FORMATTER UNIT / FORMATTER-EINHEIT-2/7



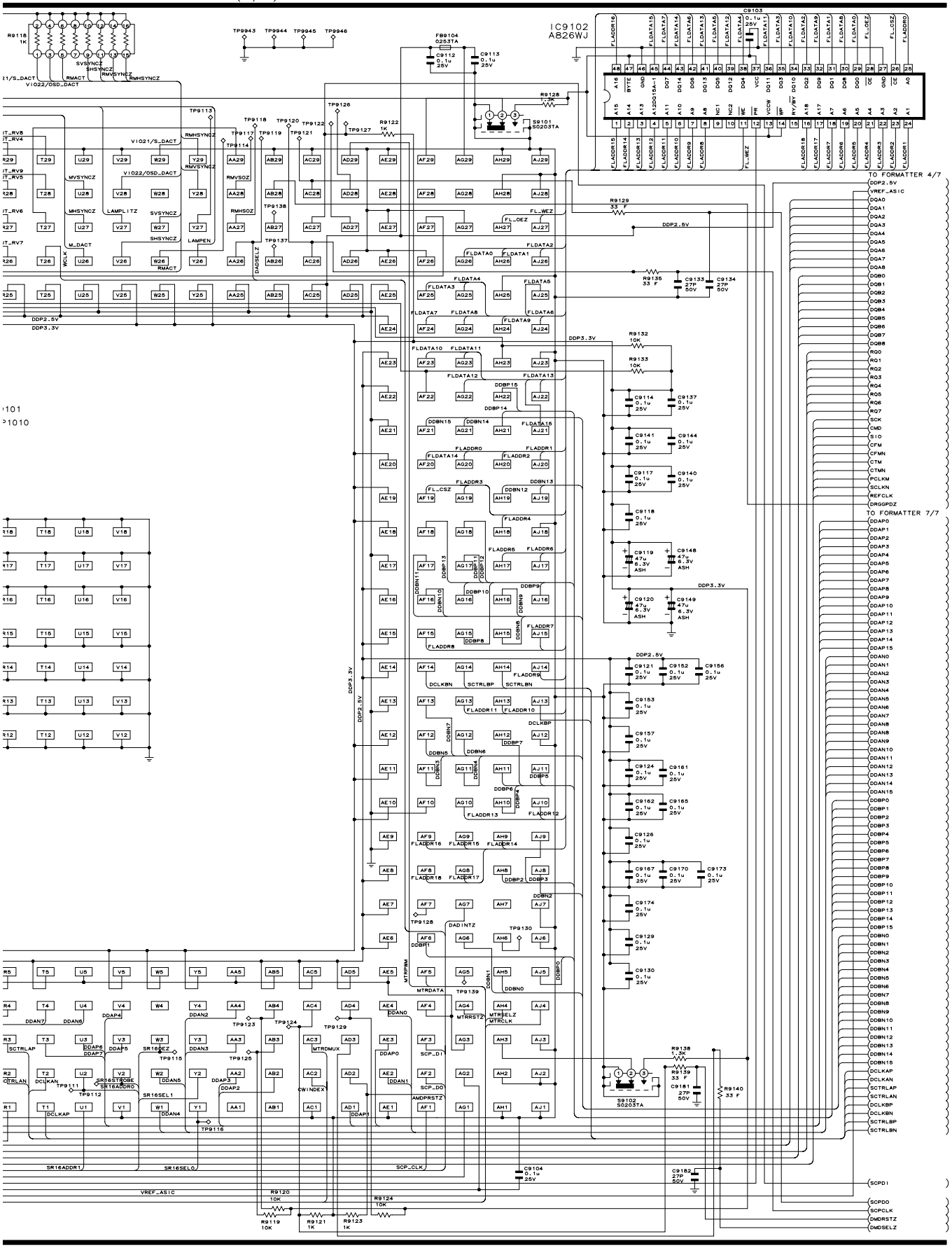



| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# ■ FORMATTER UNIT / FORMATTER-EINHEIT-3/7



FORMATTER (3/7)




| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
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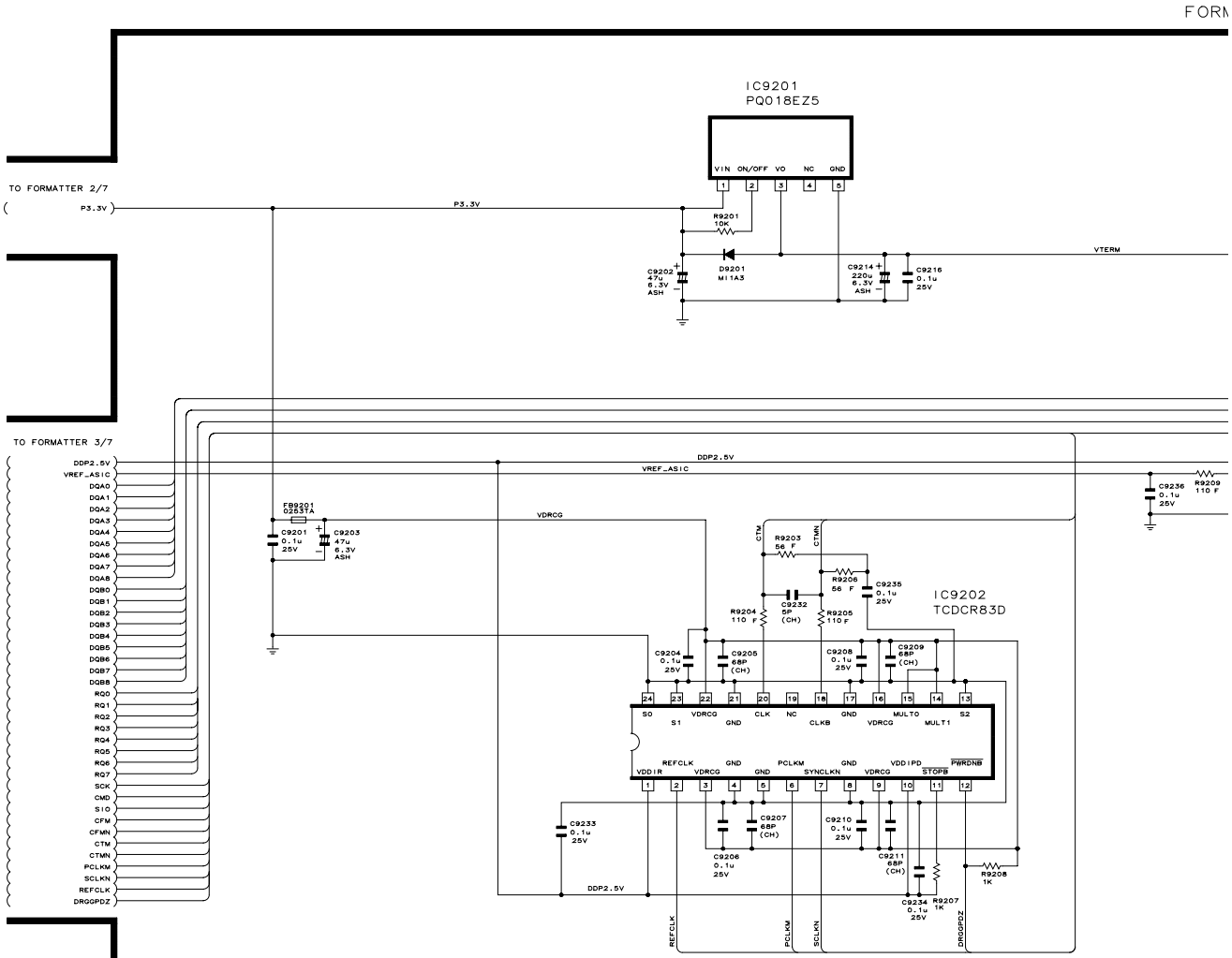
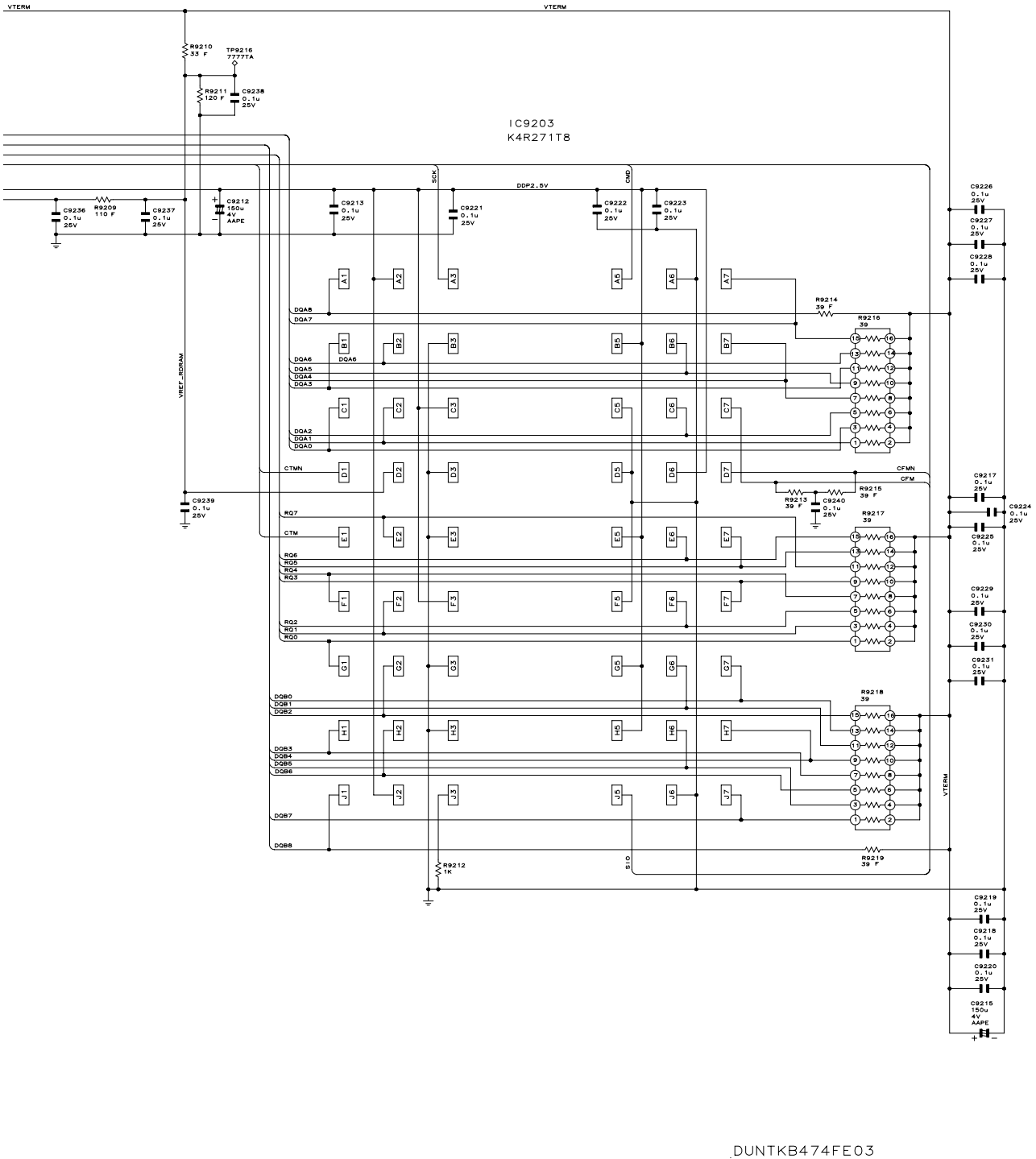
# ■ FORMATTER UNIT / FORMATTER-EINHEIT-4/7



FORMATTER (4/7)




| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
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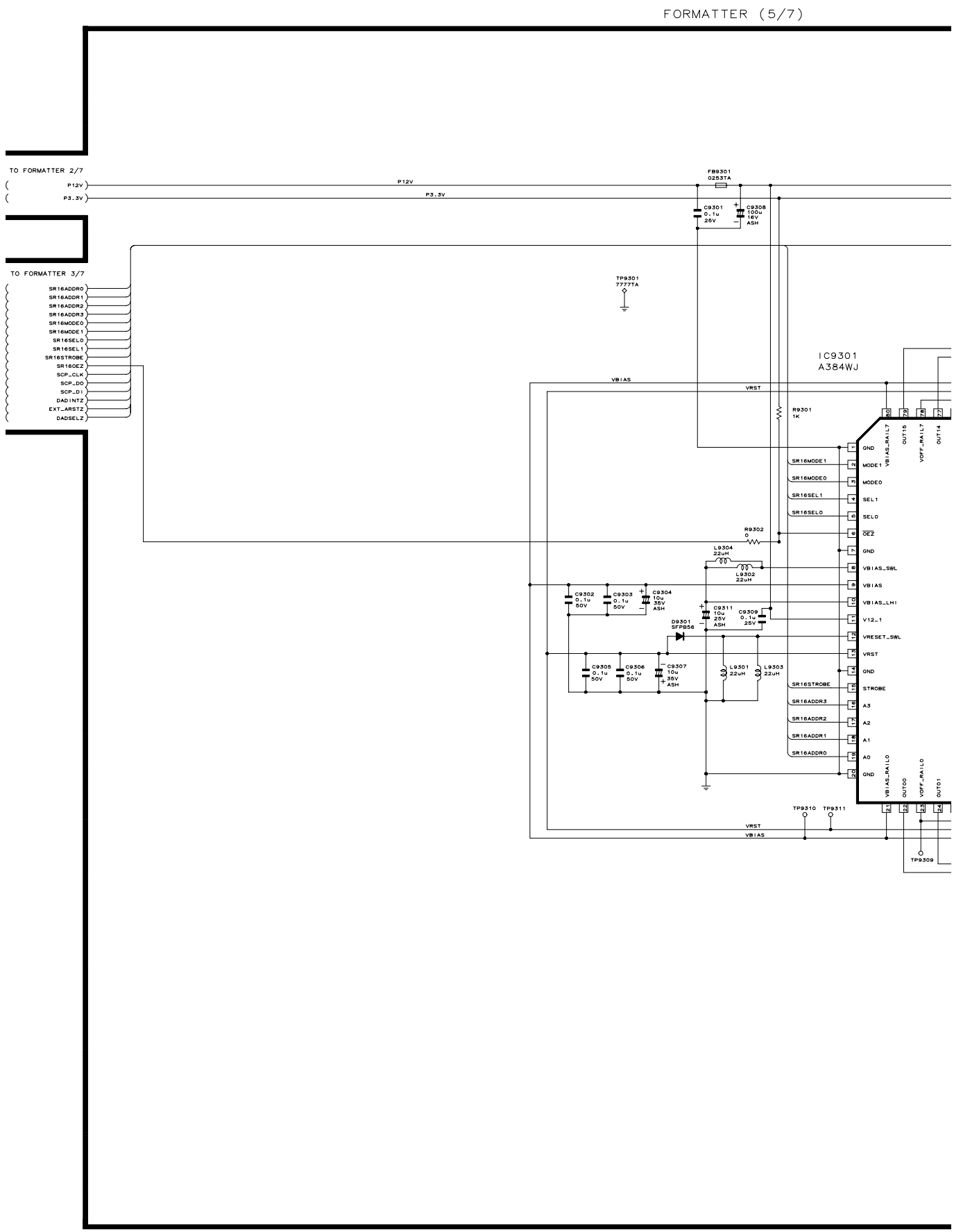
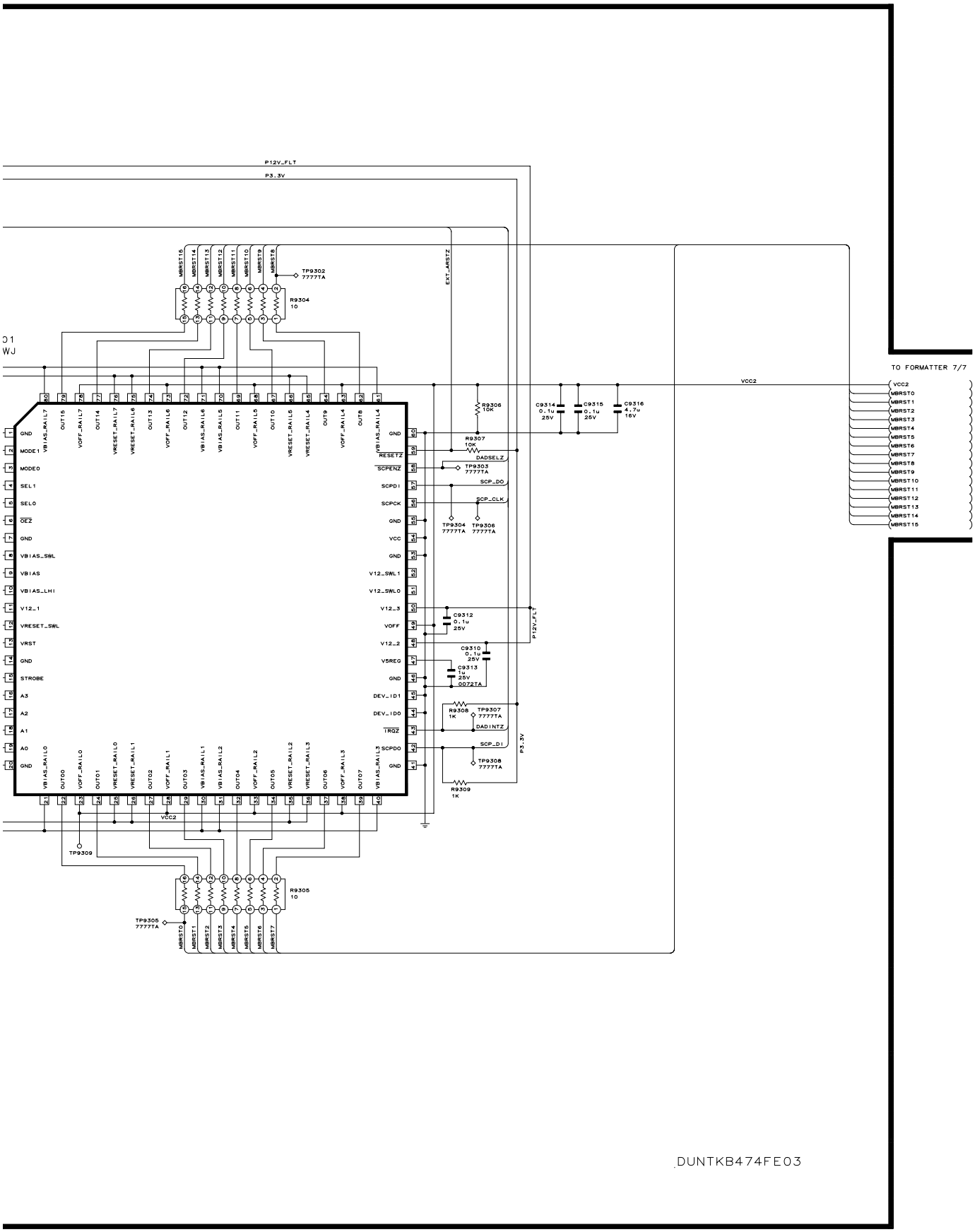
# ■ FORMATTER UNIT / FORMATTER-EINHEIT-5/7






| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
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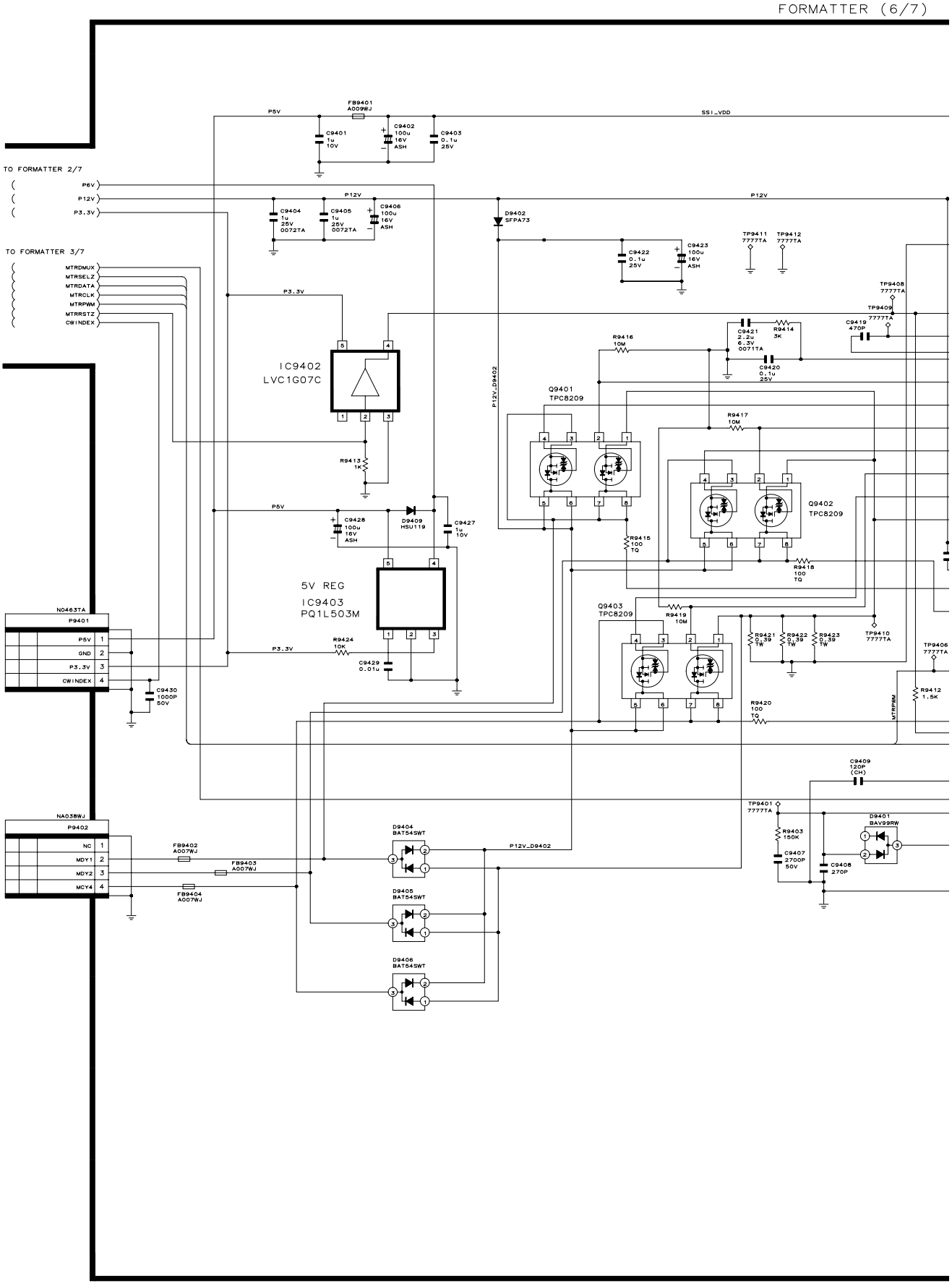
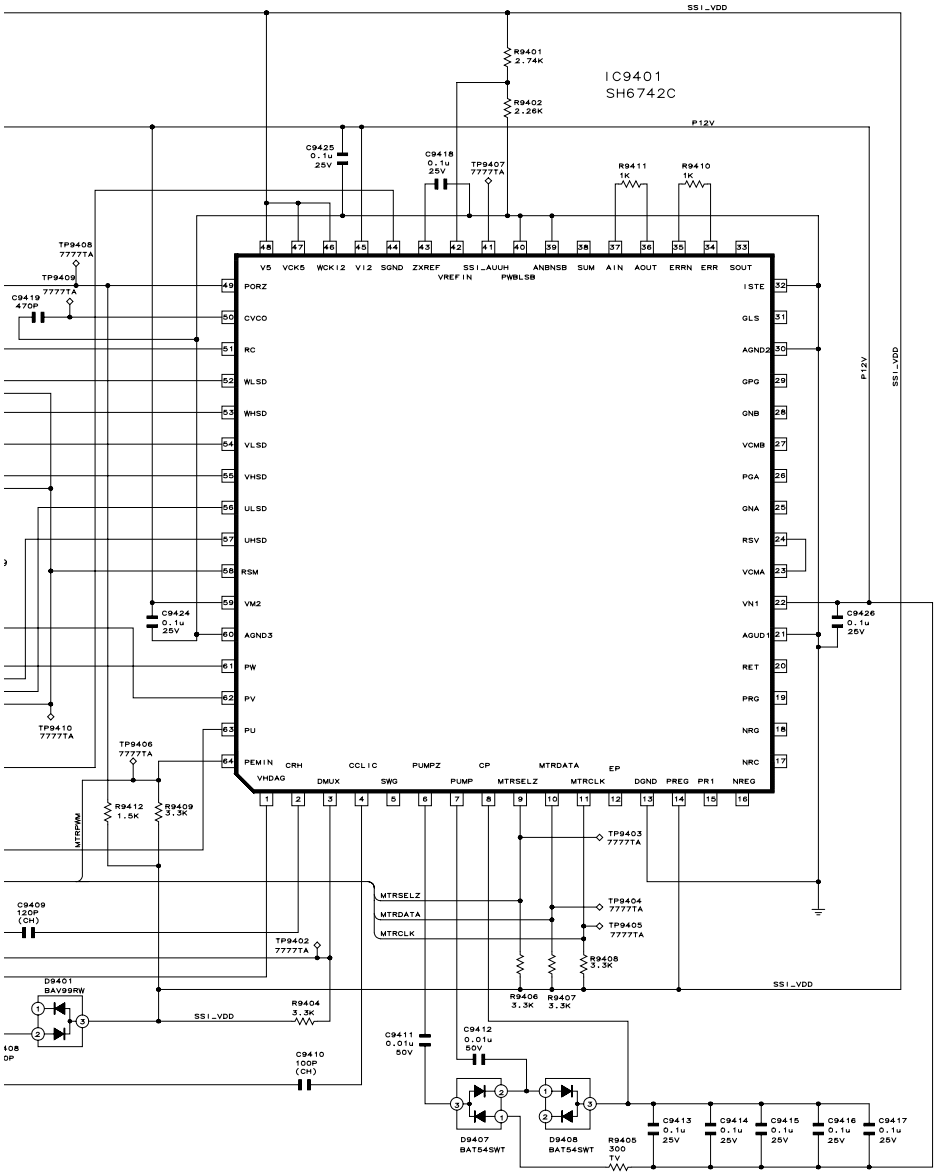
# ■ FORMATTER UNIT / FORMATTER-EINHEIT-6/7

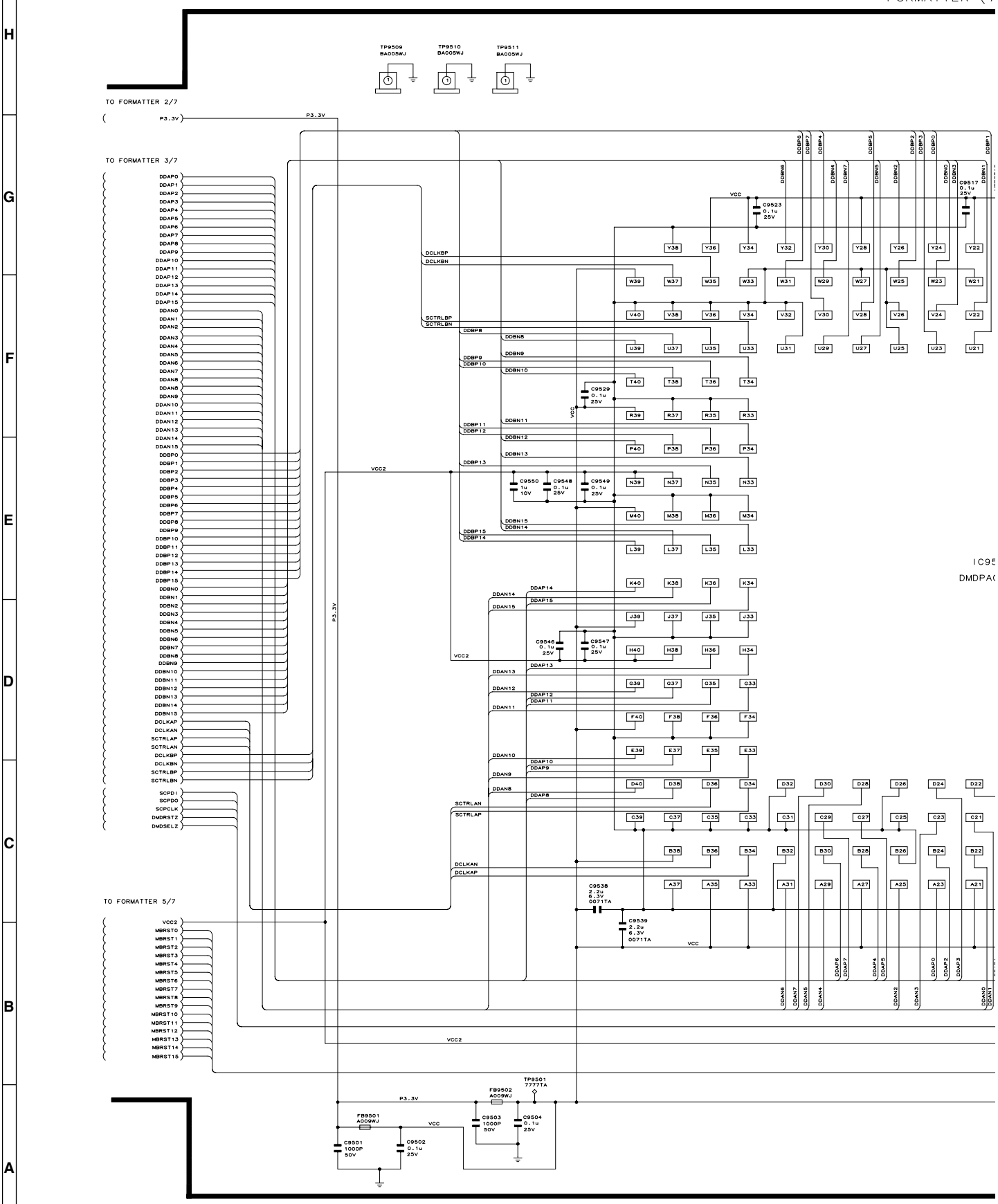


TER (6/7)

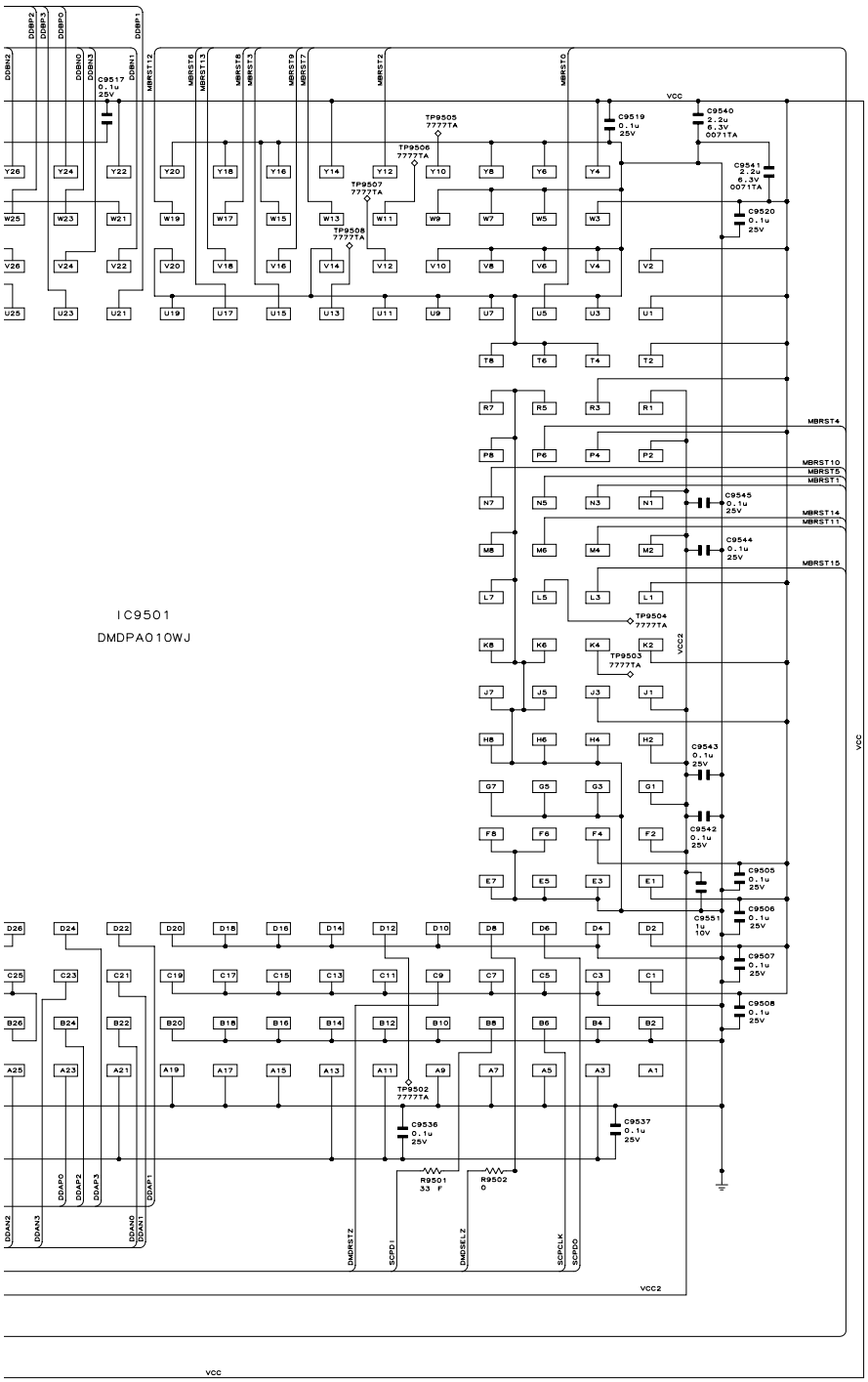



DUNTKB474FE03

# ■ FORMATTER UNIT / FORMATTER-EINHEIT-7/7



'ORMATTER (7/7)




DUNTKB474FE03

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
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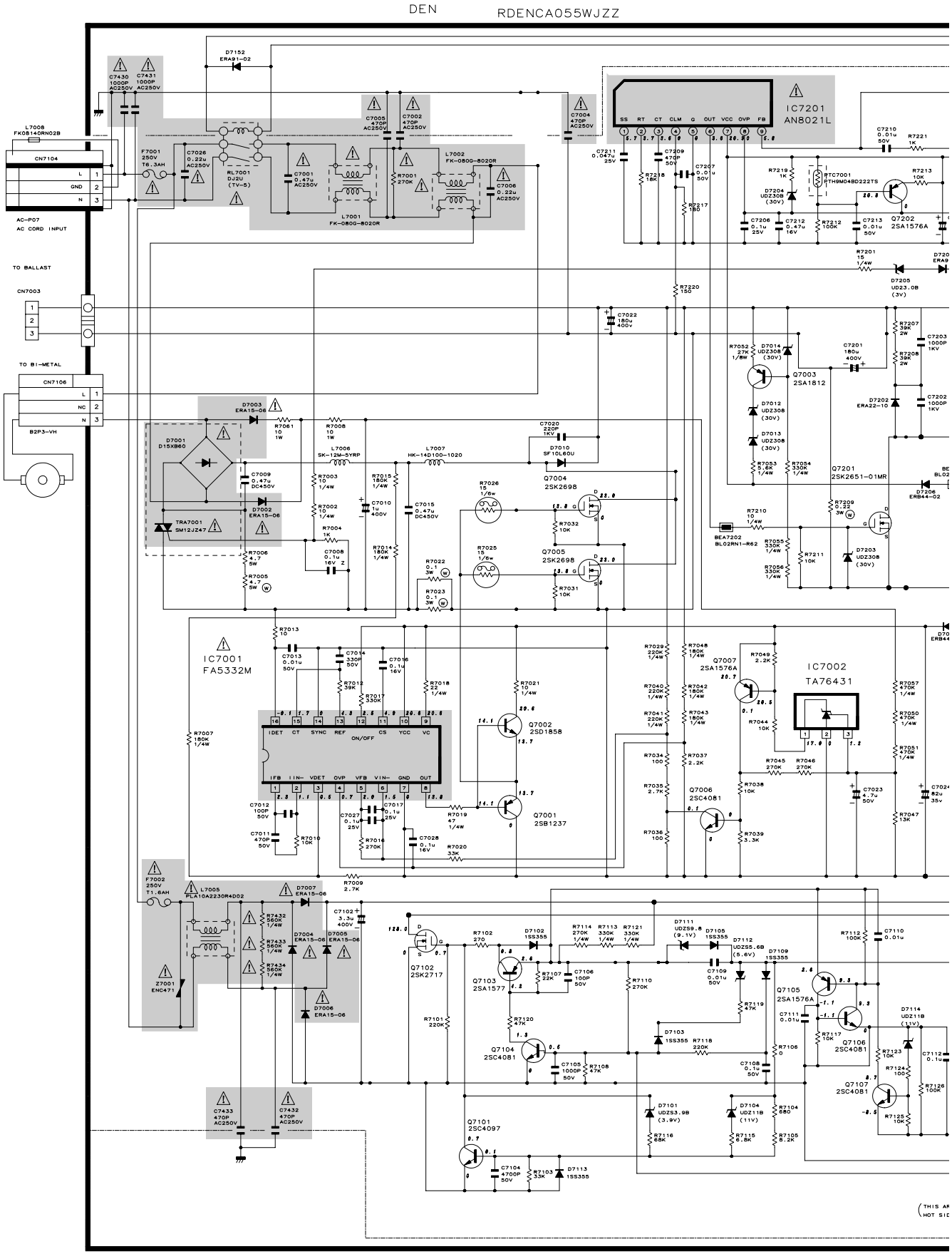
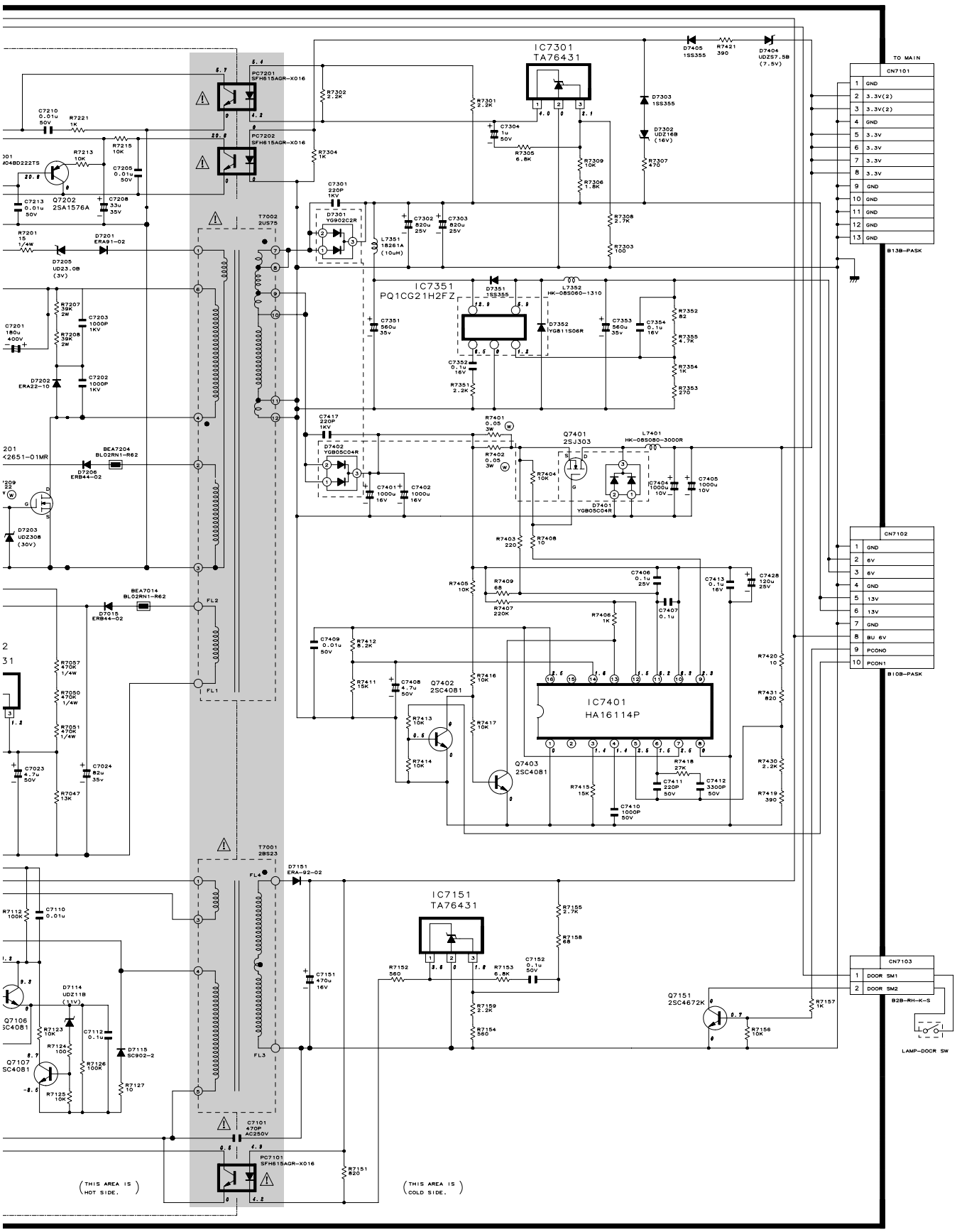
# ■ POWER UNIT / NETZTEINHEIT

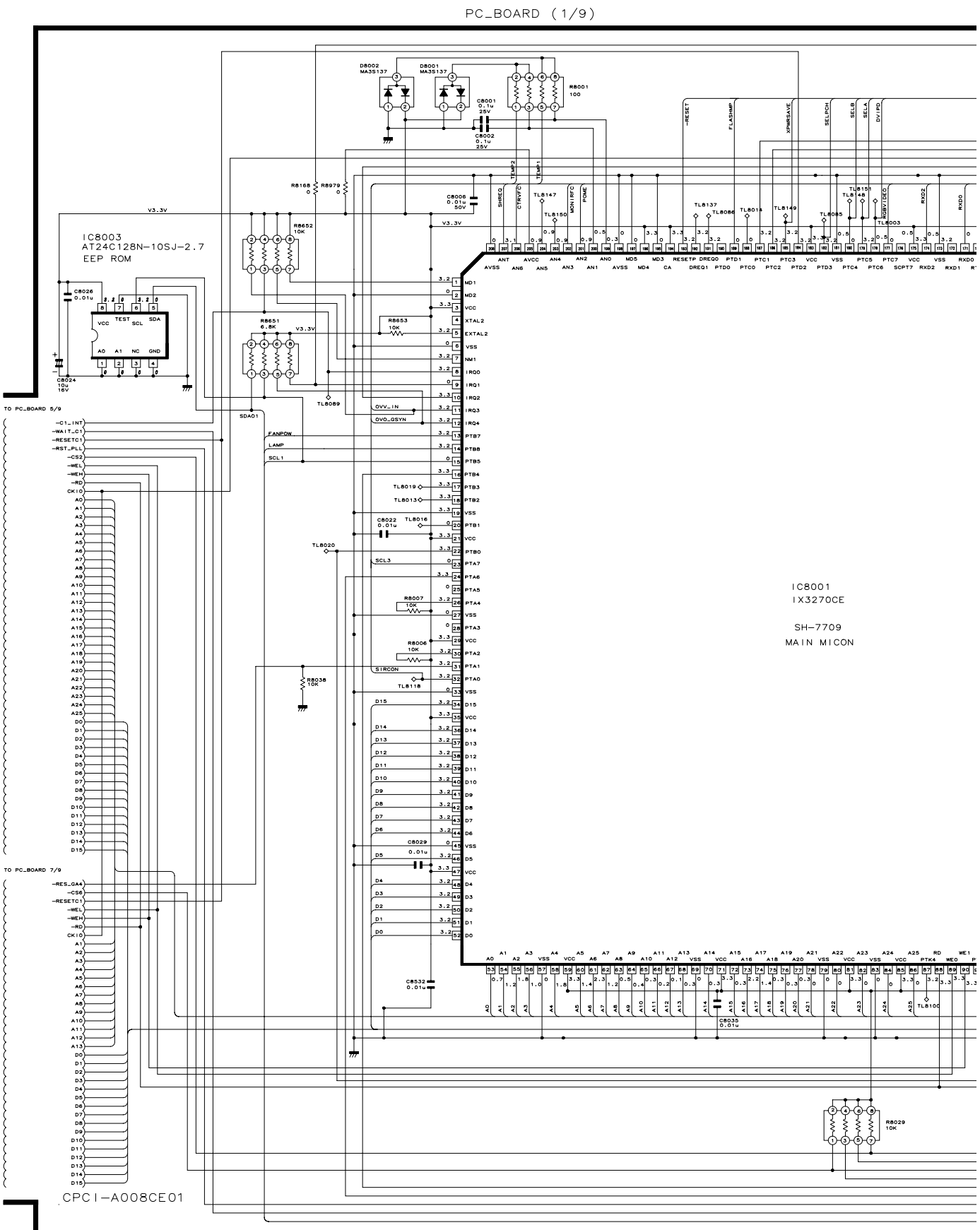
DEN RDENCA055WJZZ

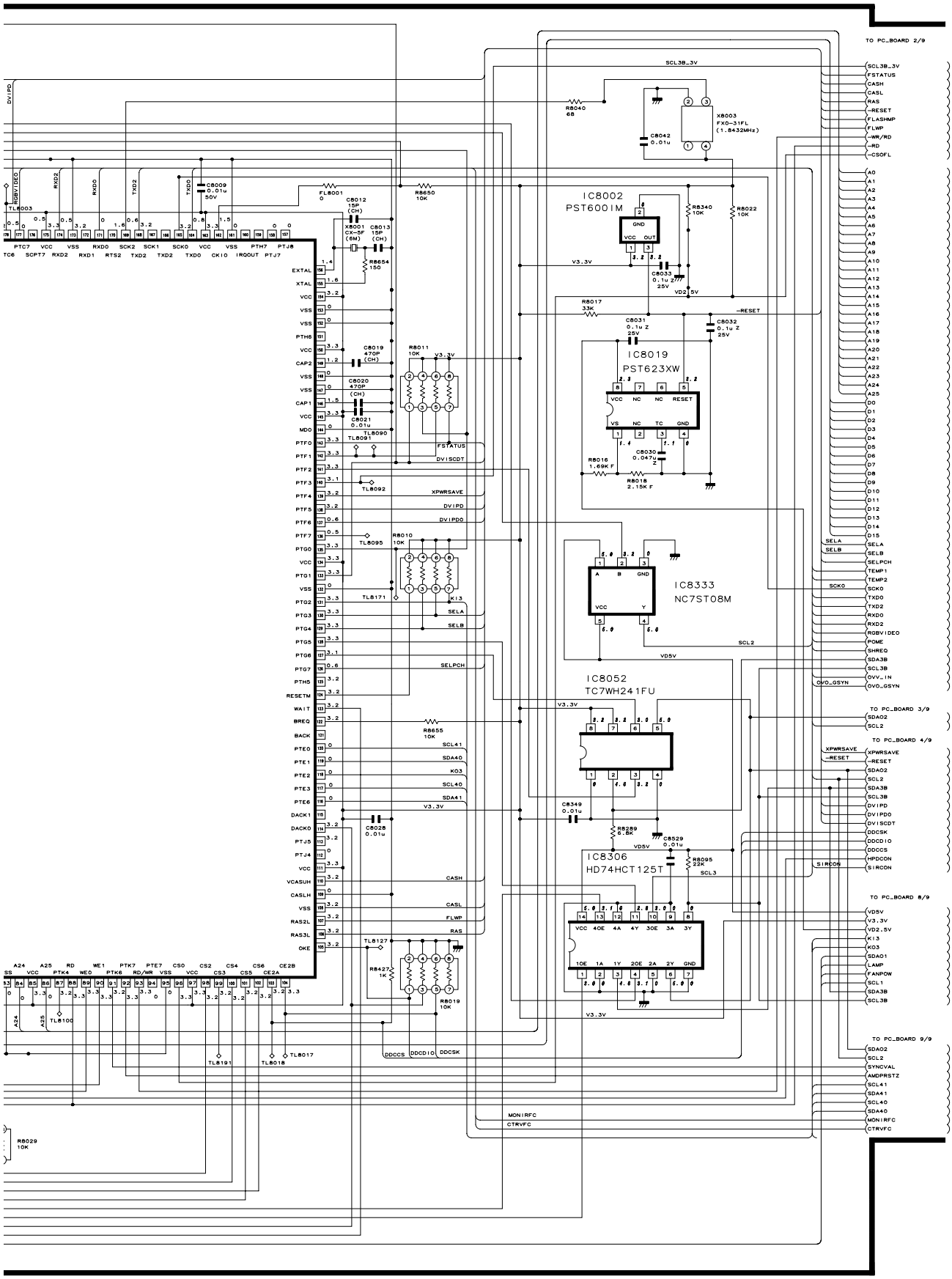





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

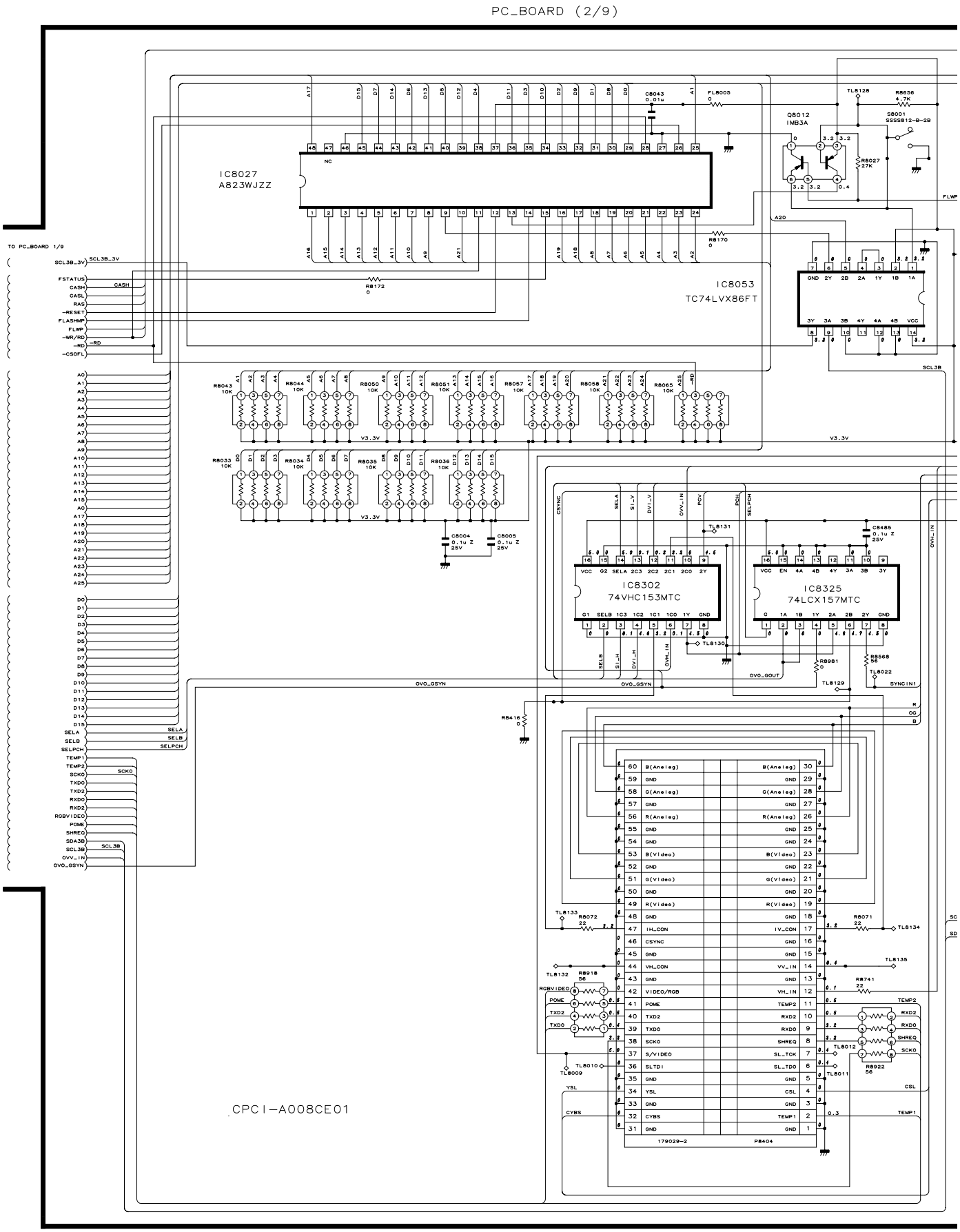
# ■ PC I/F UNIT / PC-I/F-EINHEIT-1/9

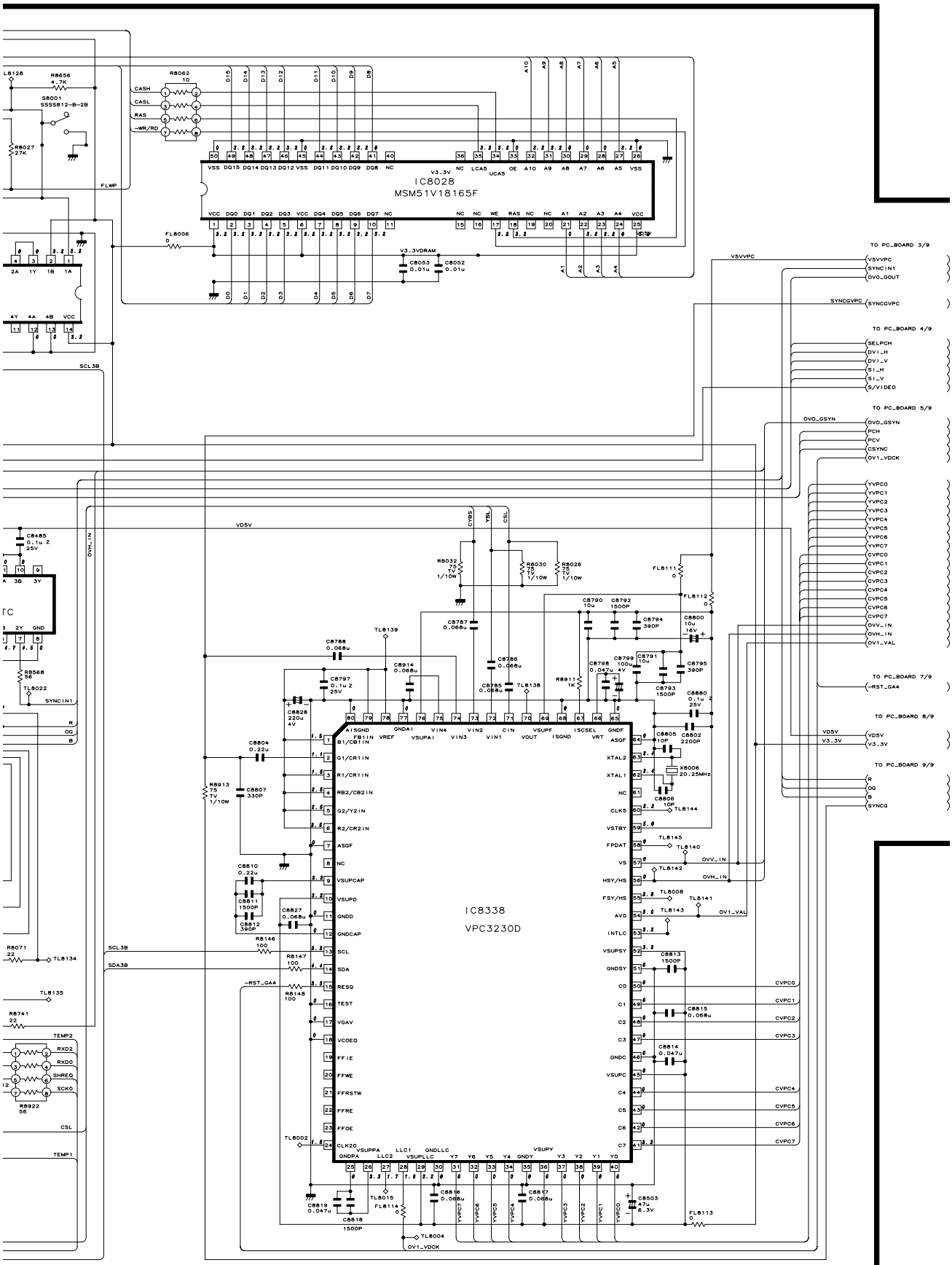





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# ■ PC I/F UNIT / PC-I/F-EINHEIT-2/9

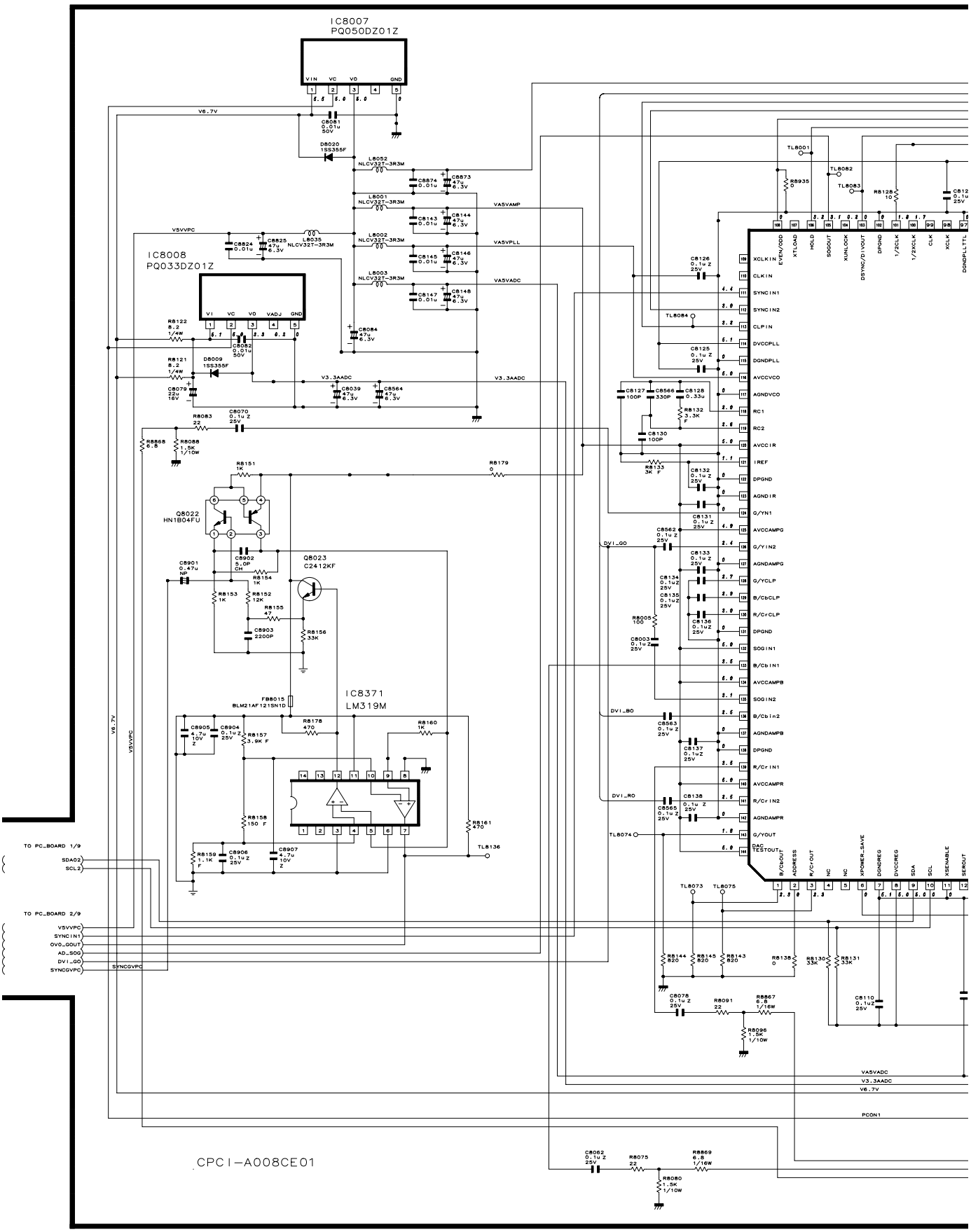





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# ■ PC I/F UNIT / PC-I/F-EINHEIT-3/9

PC_BOARD (3/9)



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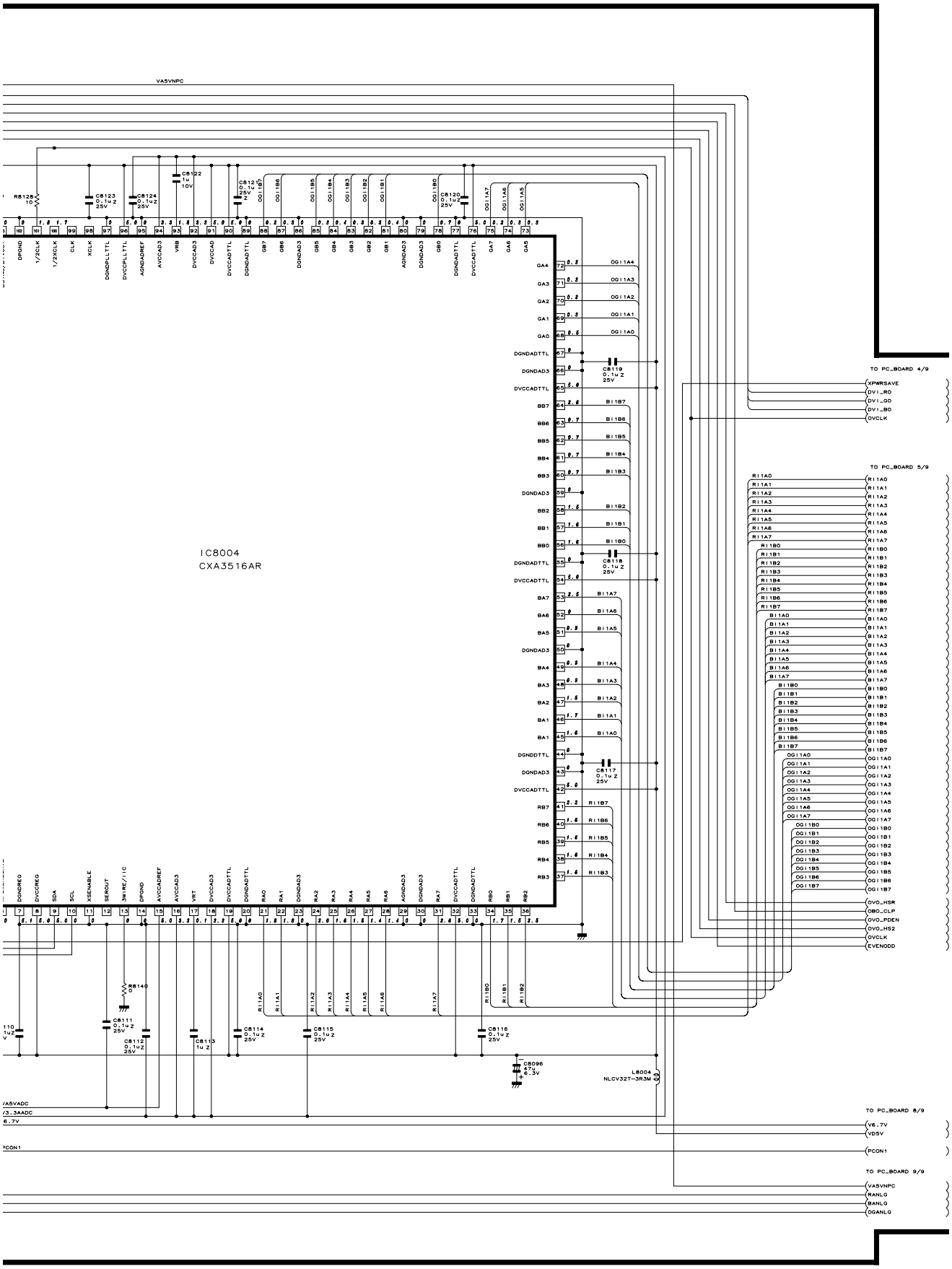
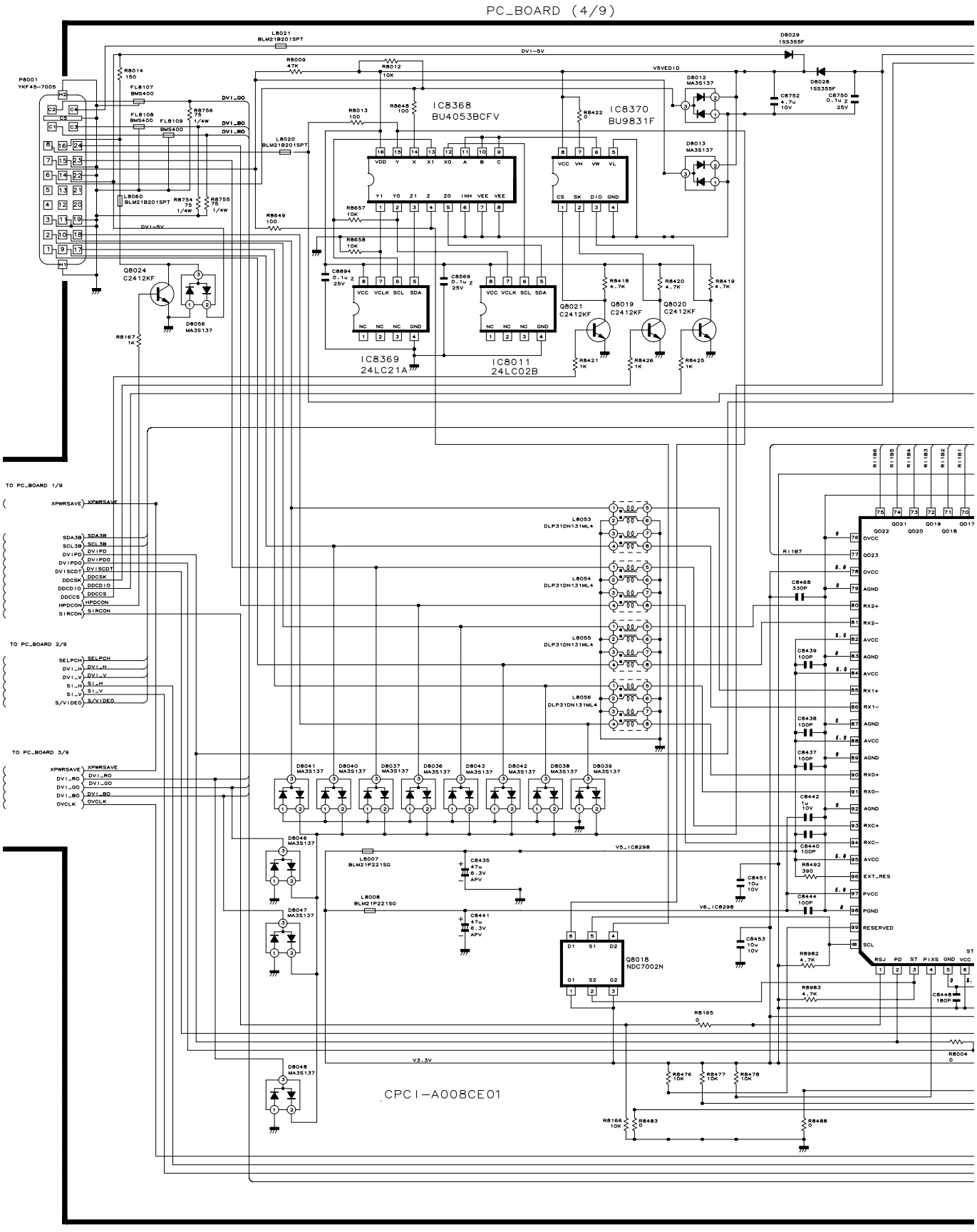
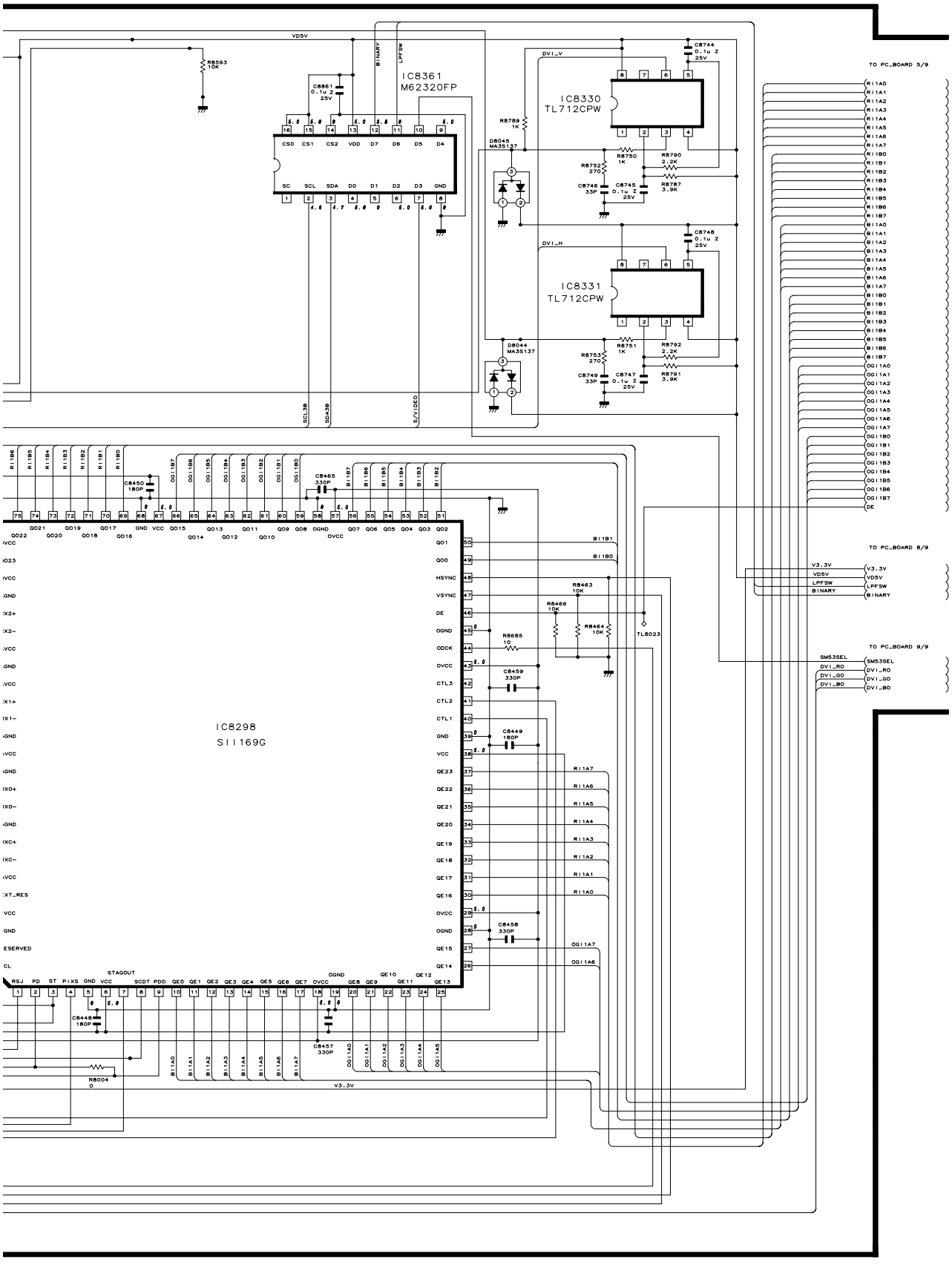



| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

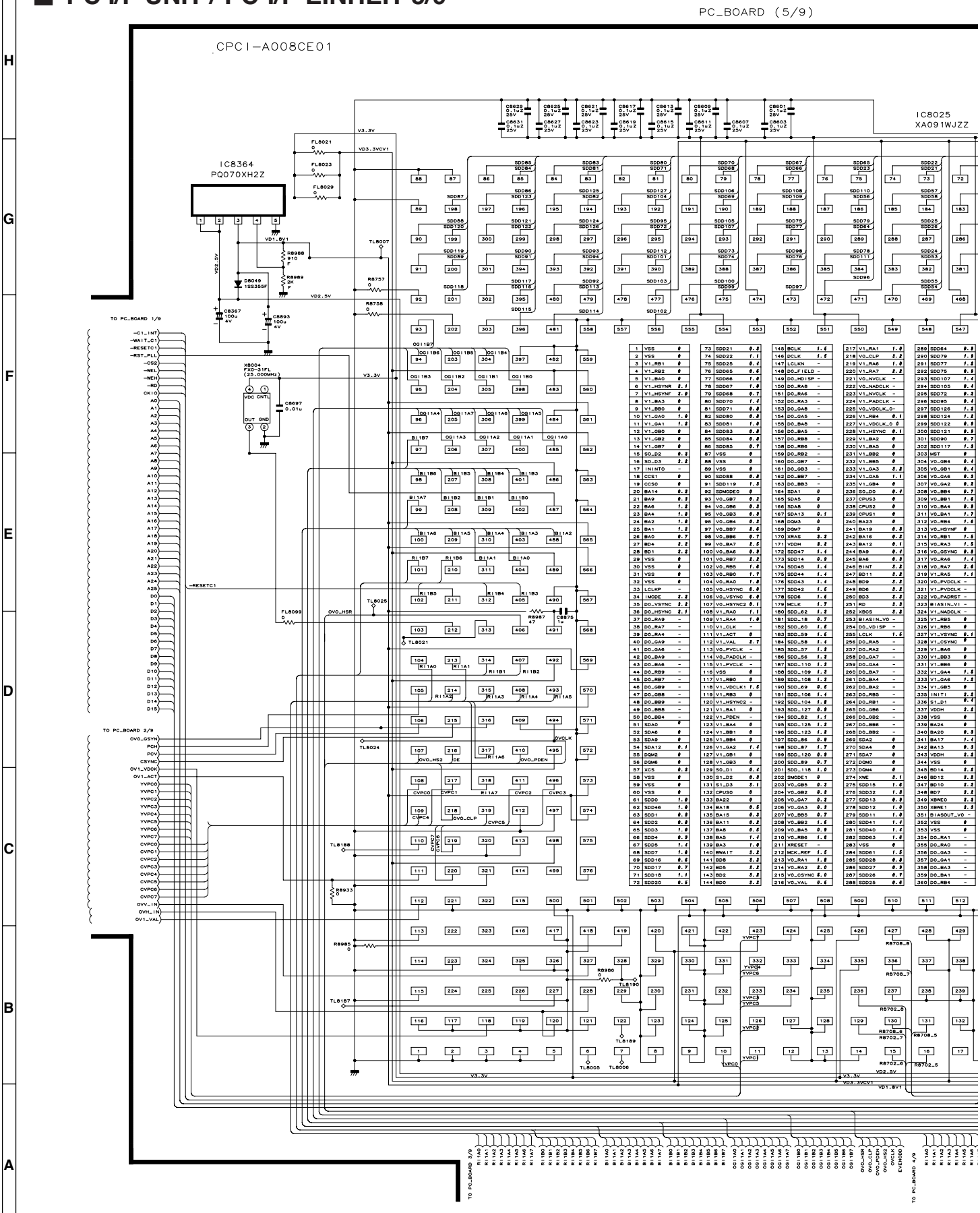
# ■ PC I/F UNIT / PC-I/F-EINHEIT-4/9

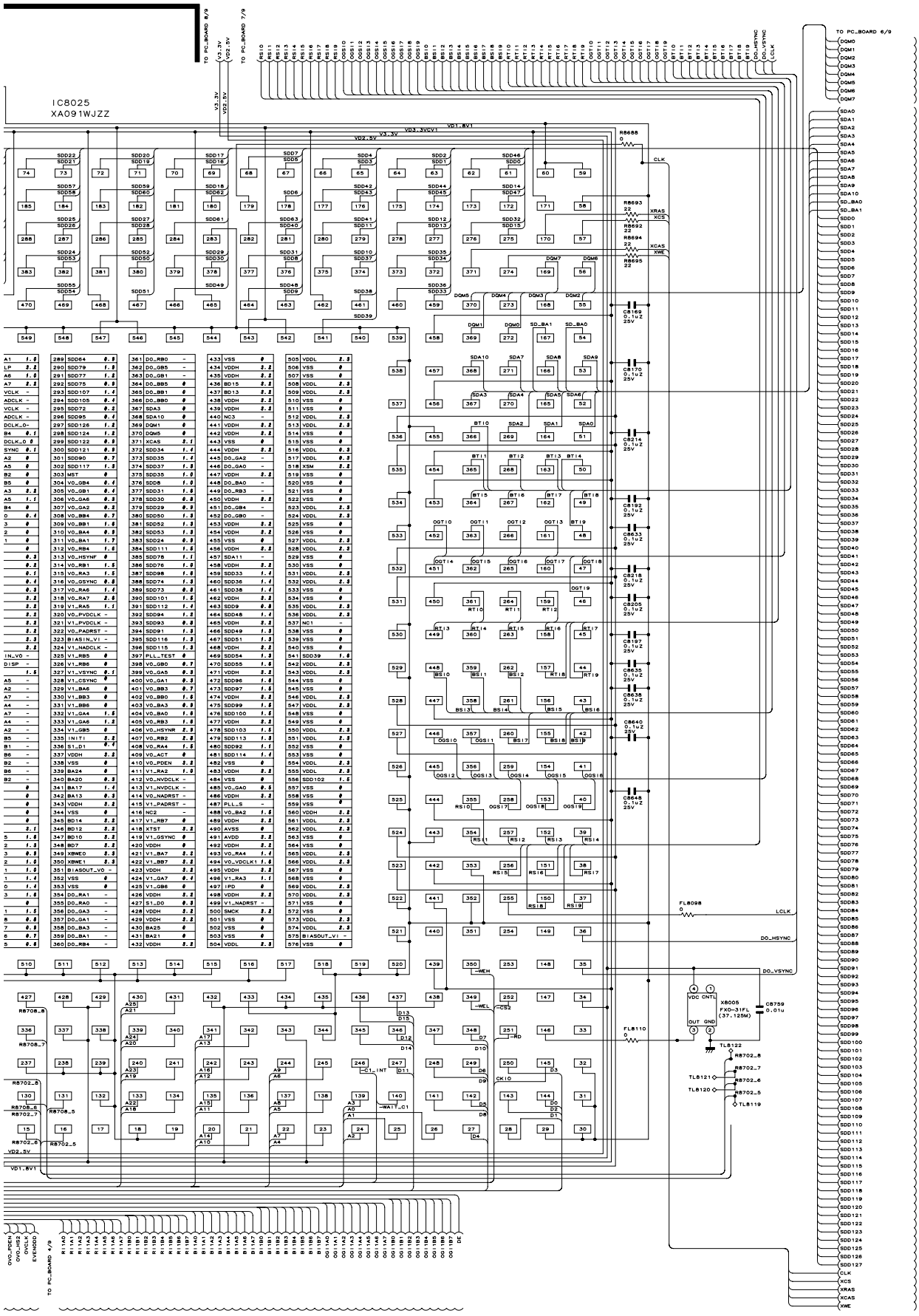





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

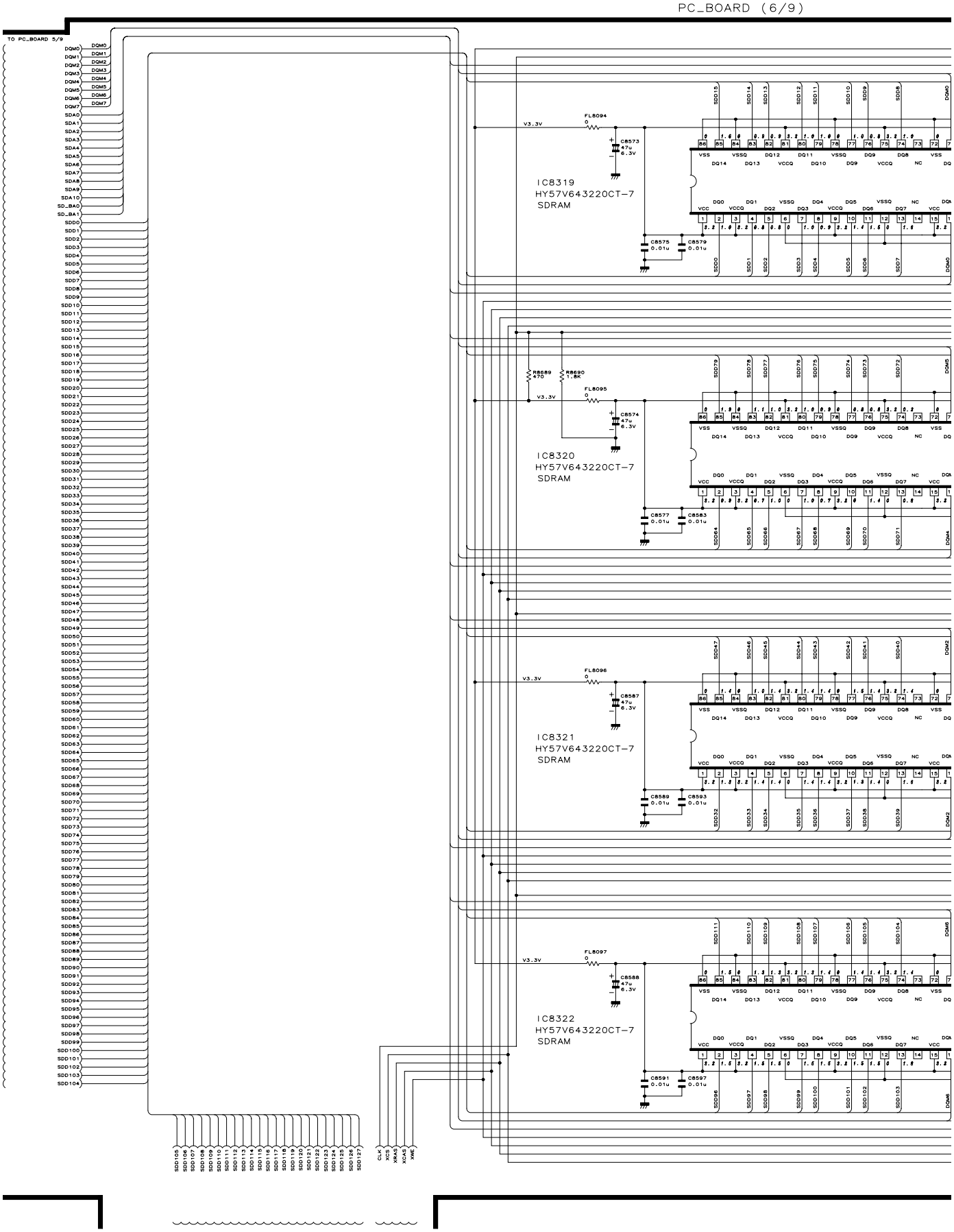
# ■ PC I/F UNIT / PC-I/F-EINHEIT-5/9

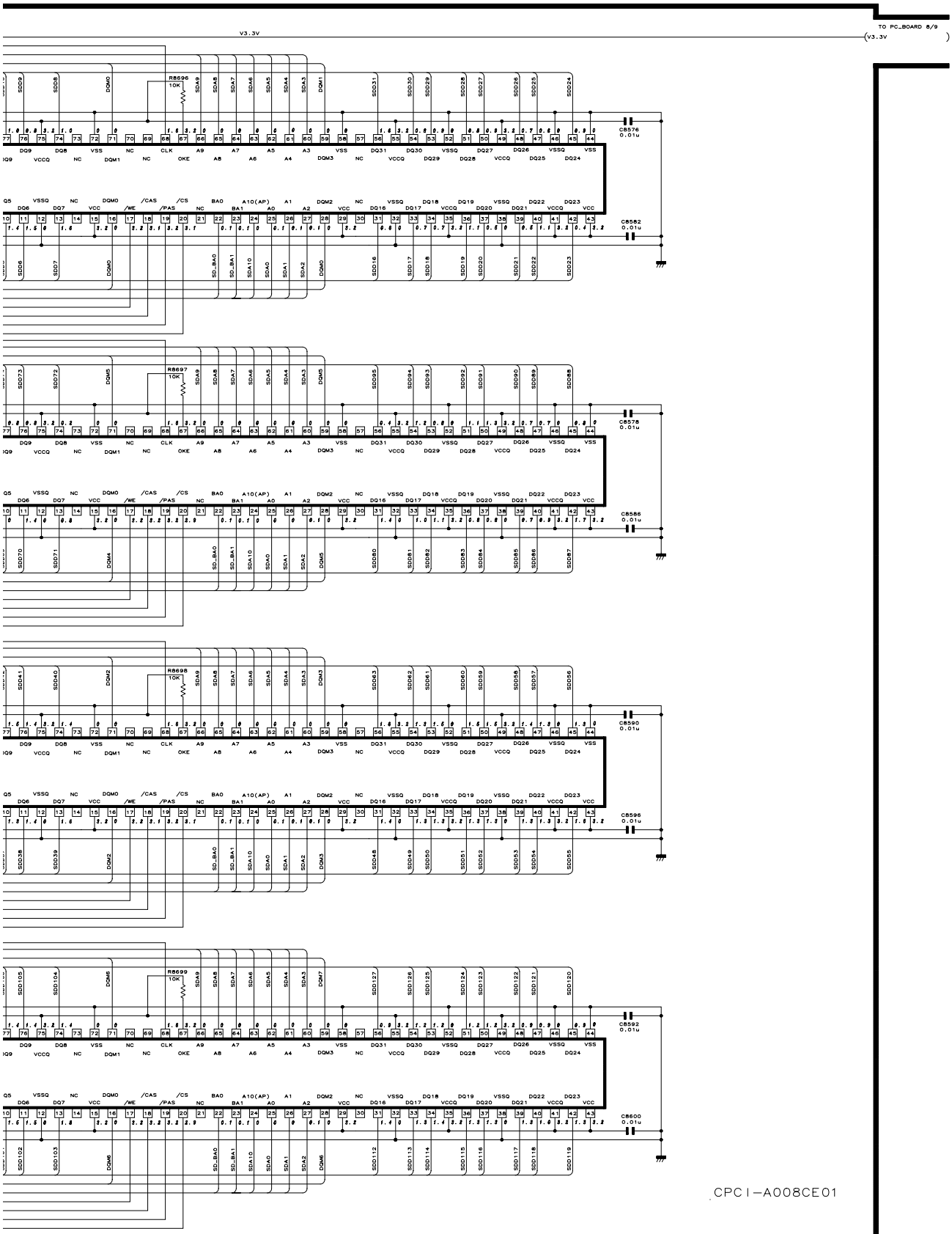





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# ■ PC I/F UNIT / PC-I/F-EINHEIT-6/9

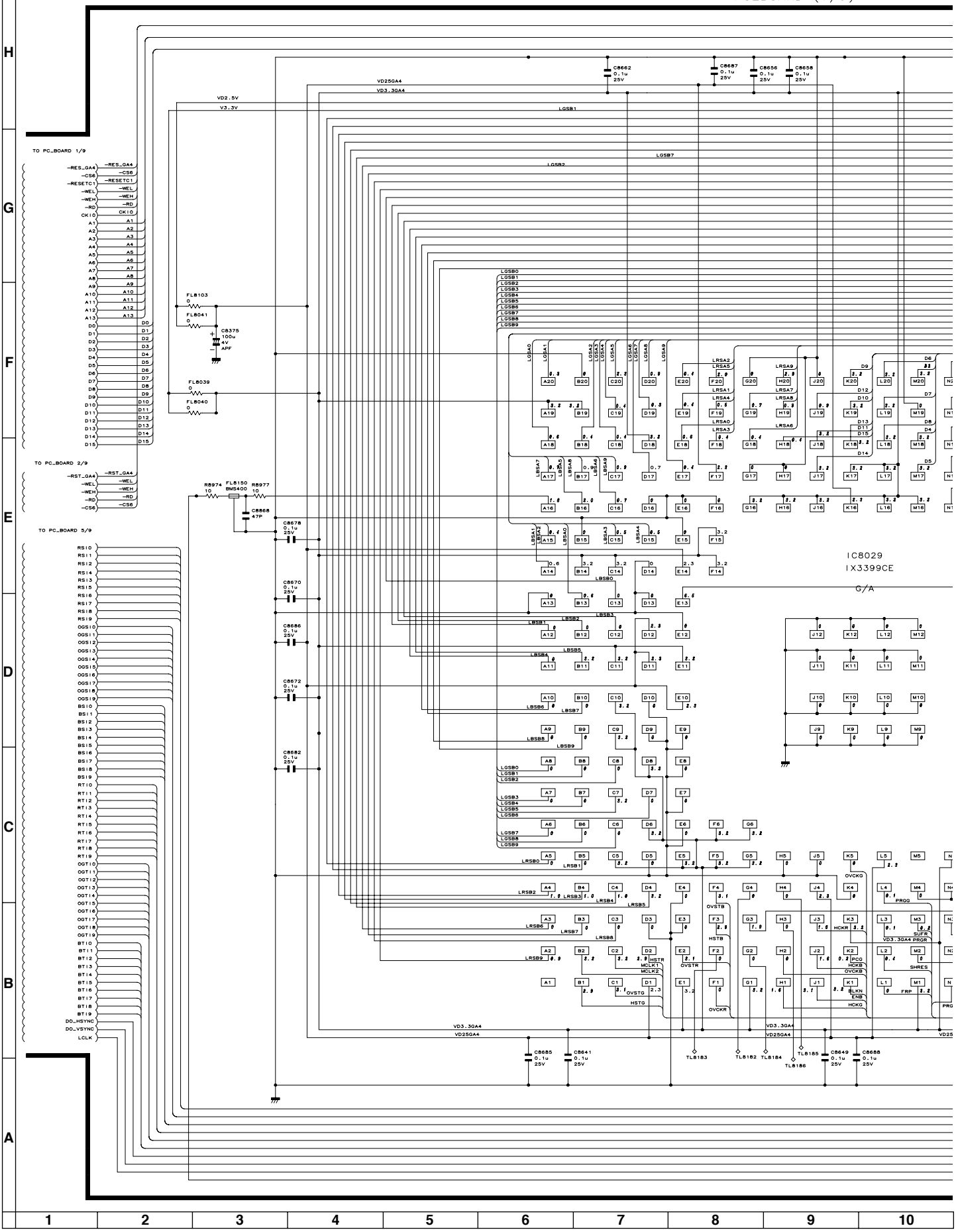


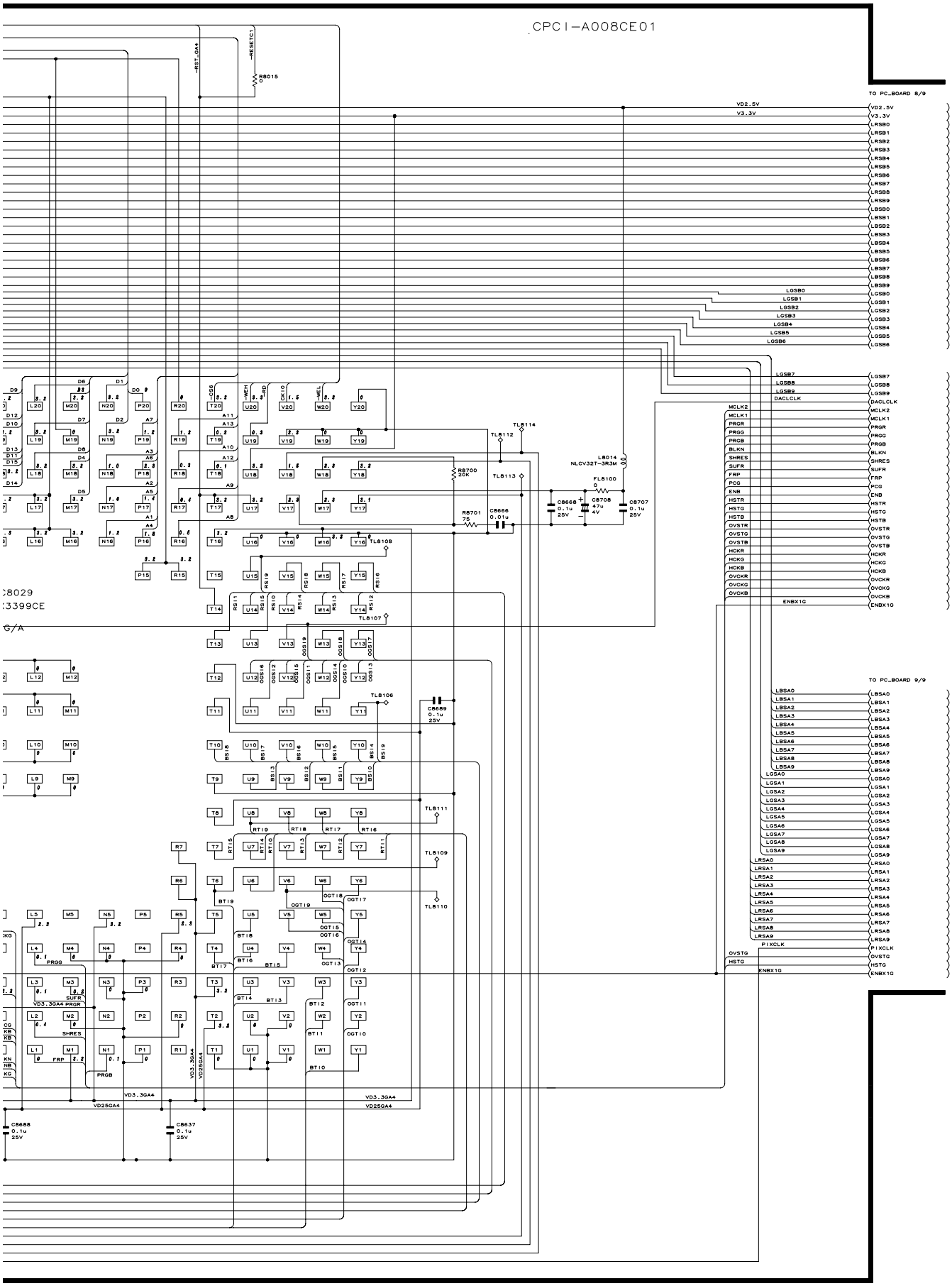



| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# ■ PC I/F UNIT / PC-I/F-EINHEIT-7/9

PC_BOARD (7/9)



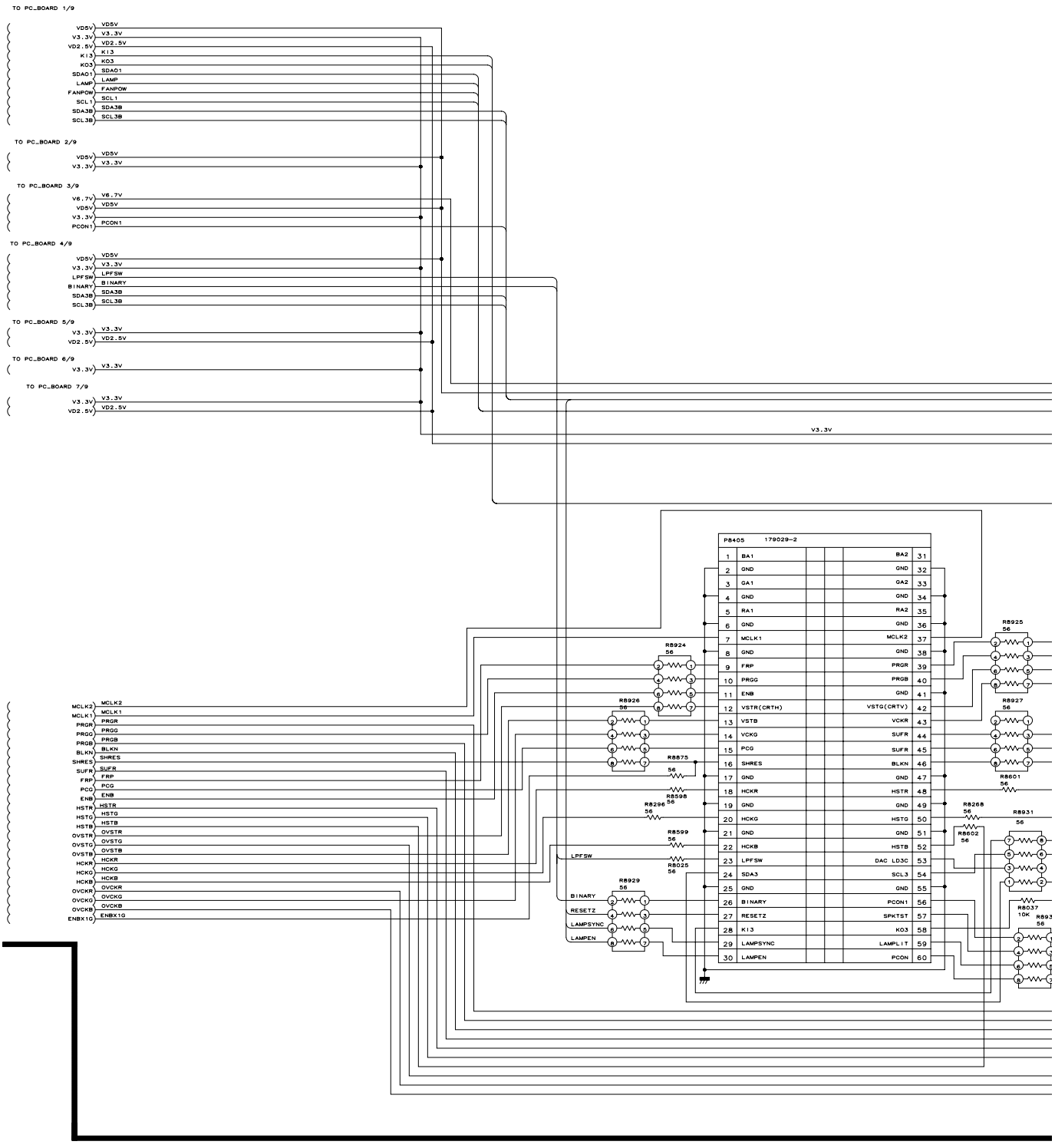


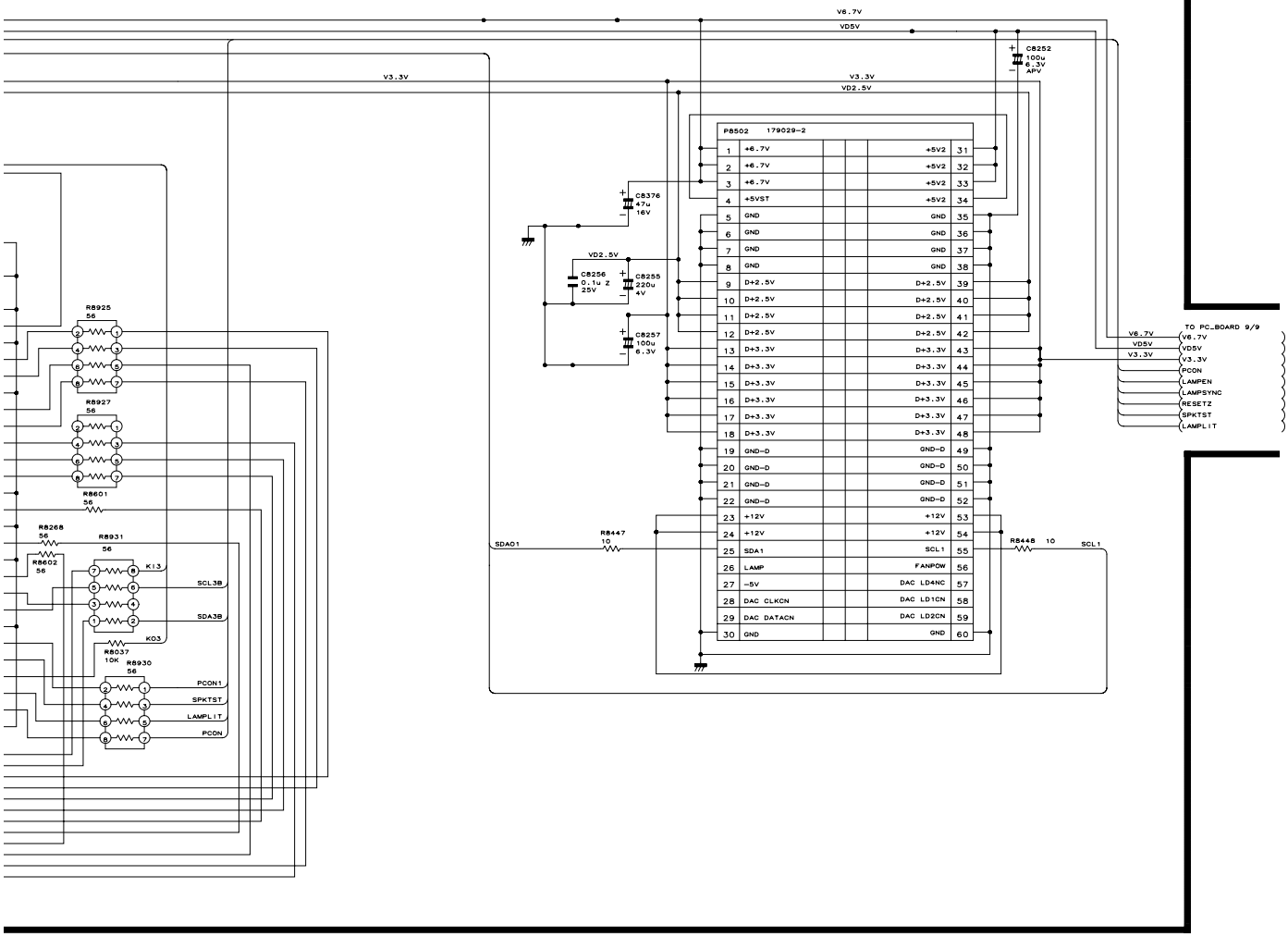

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# ■ PC I/F UNIT / PC-I/F-EINHEIT-8/9

PC_BOARD (8/9)

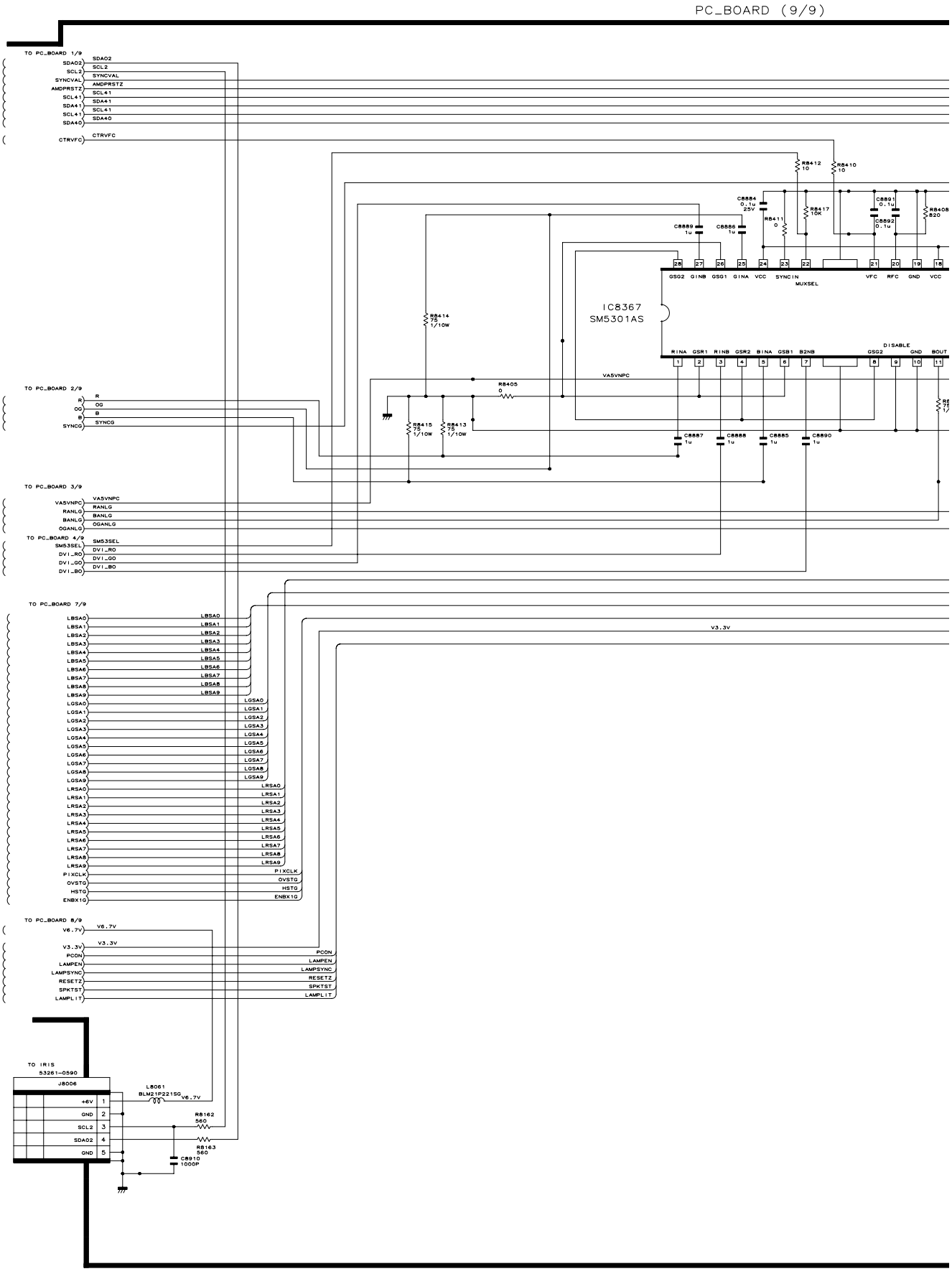
CPCI-A008CE01

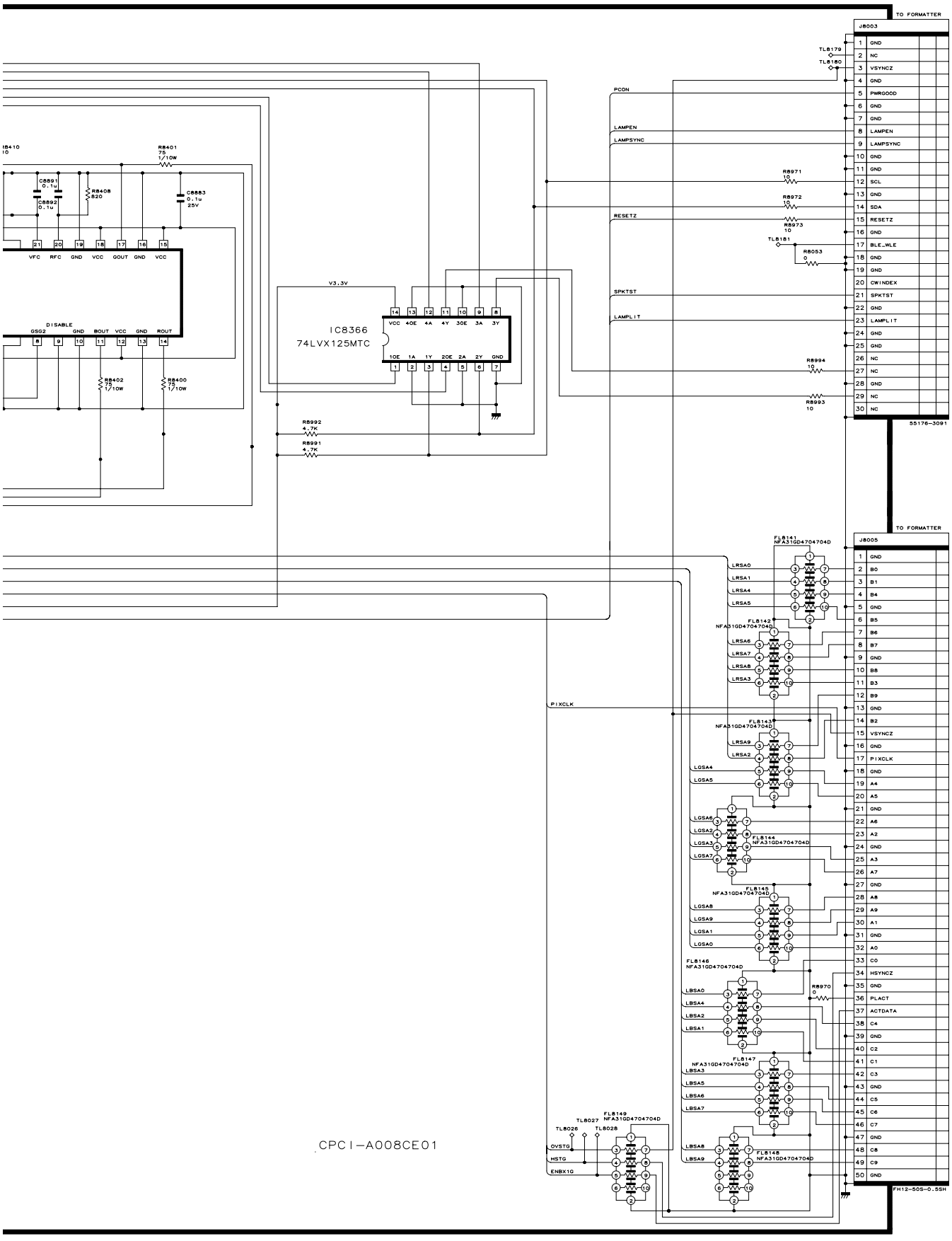





| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

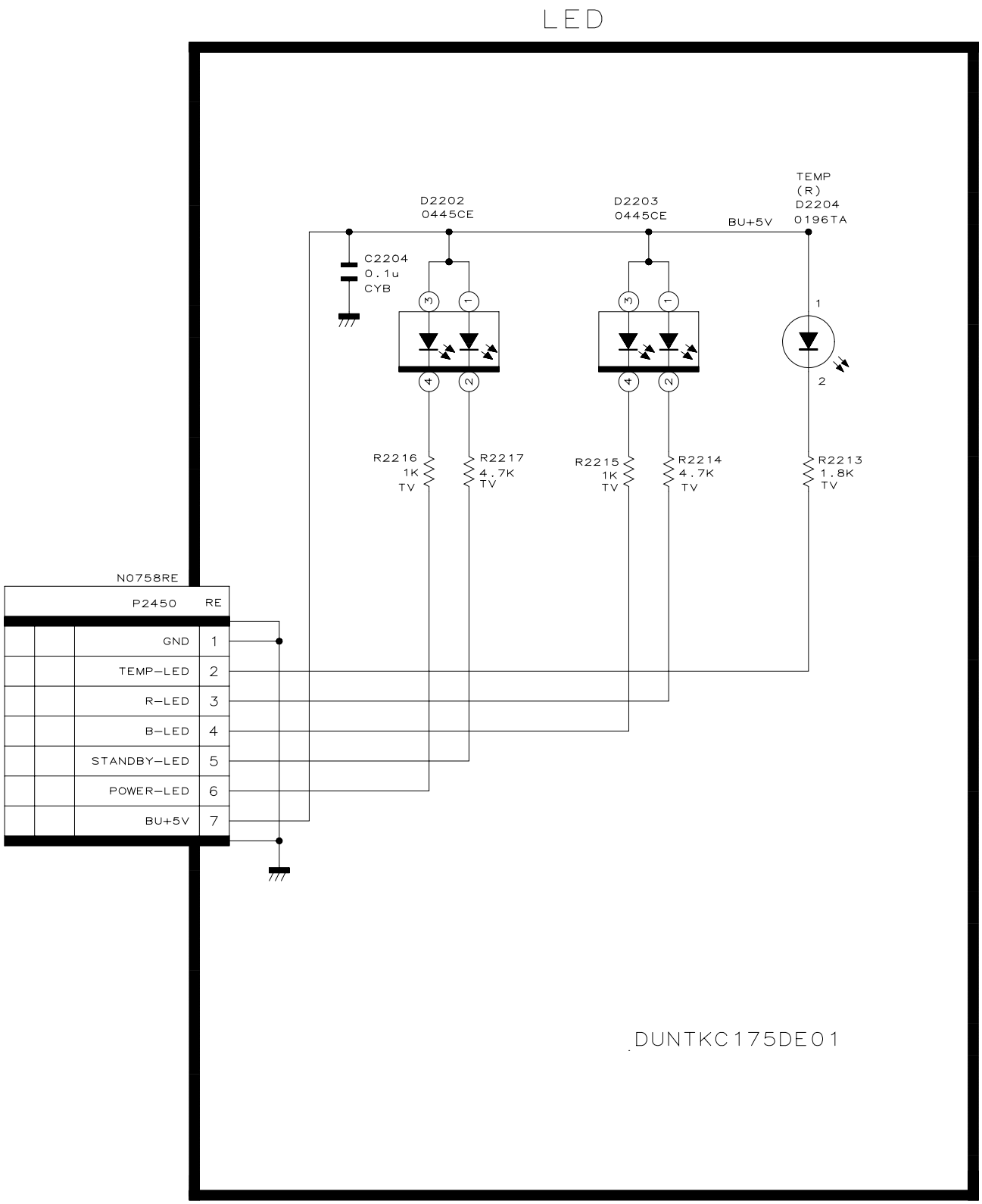
# ■ PC I/F UNIT / PC-I/F-EINHEIT-9/9



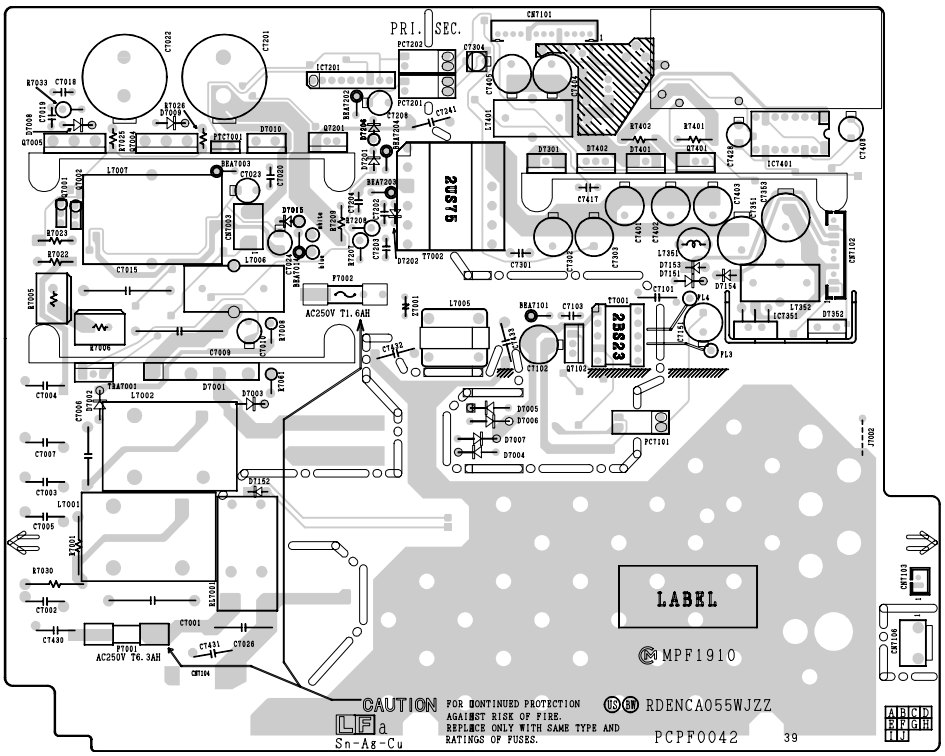



| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

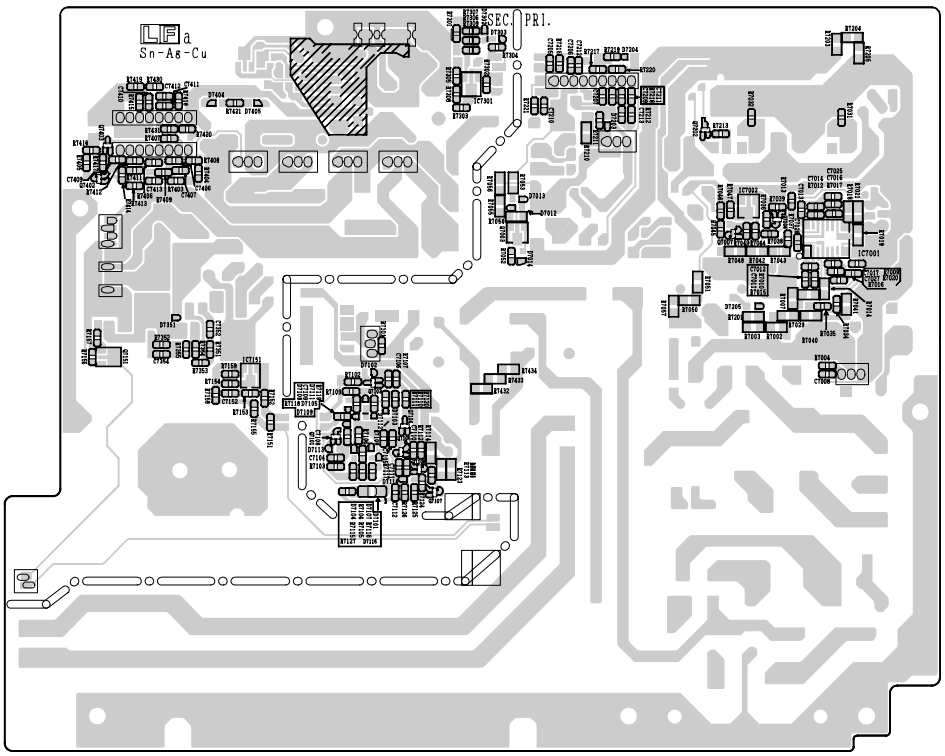
## ■ LED UNIT/ LED-EINHEIT



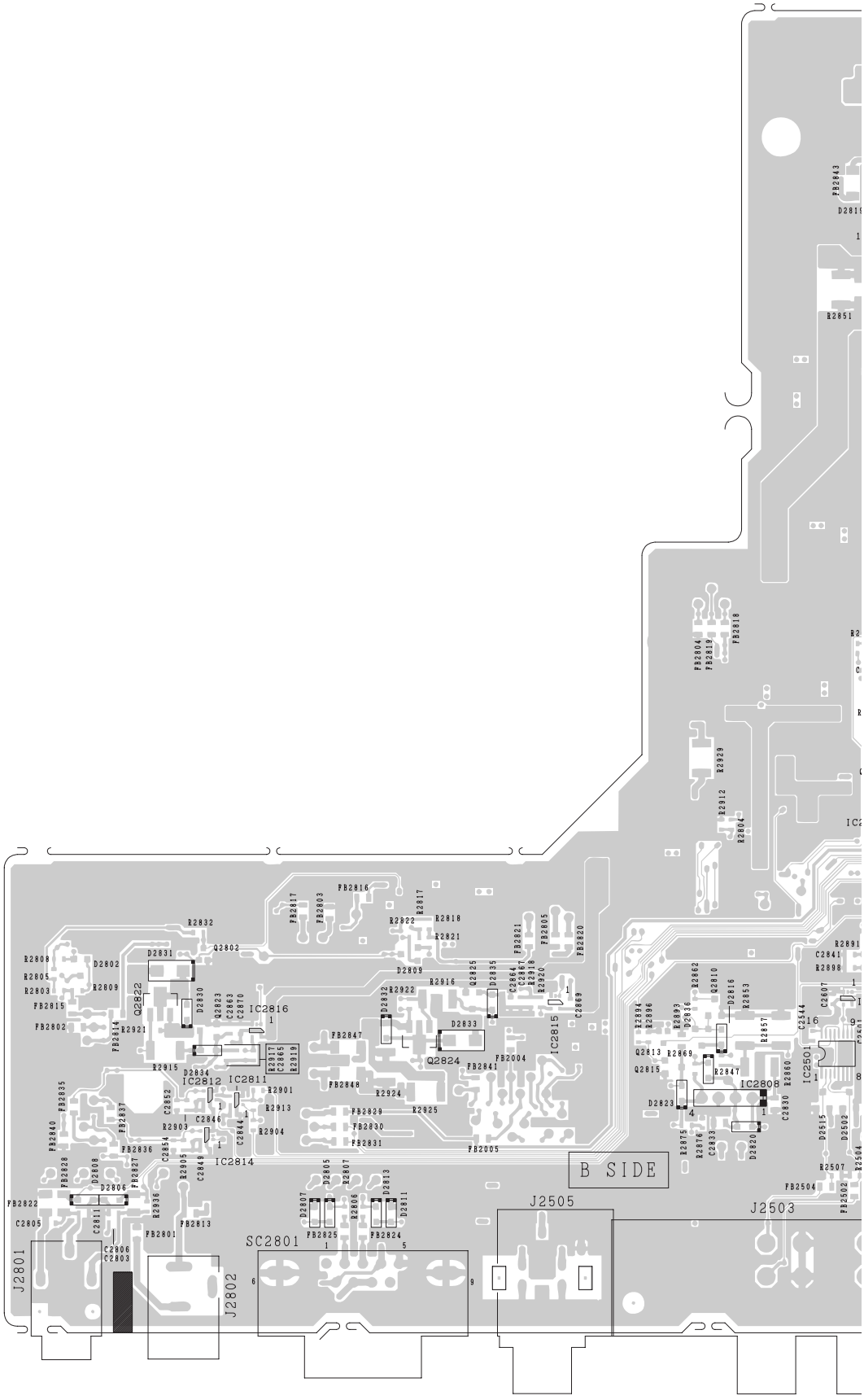
# PRINTED WIRING BOARD ASSEMBLIES
# LEITERPLATTENEINHEITEN



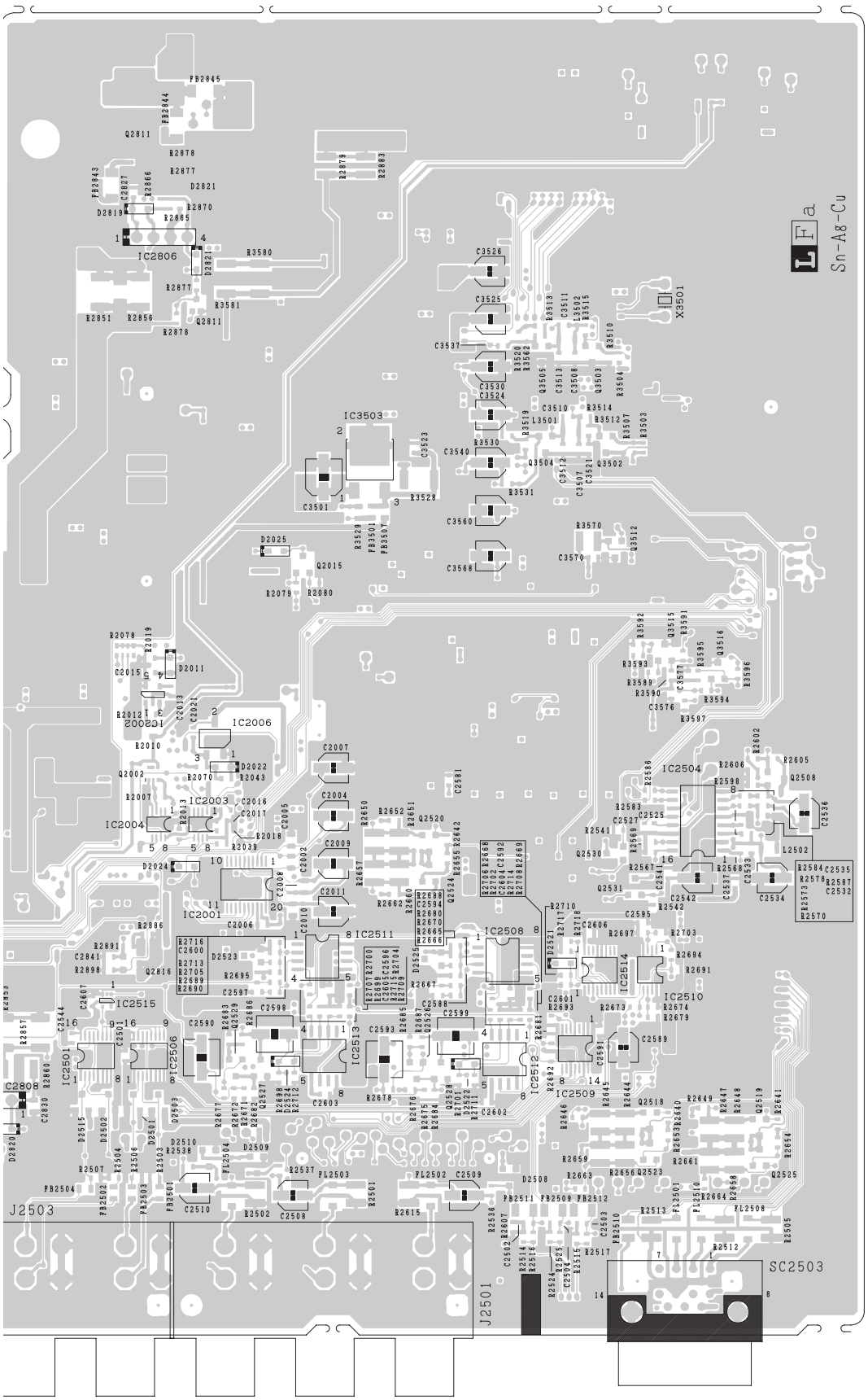

**Power Unit (Component Side)**
**Netzteinheit (Bestückungsseite)**




**Power Unit (Wiring Side)**
**Netzteinheit (Leiterbahnseite)**




**Main Unit (Component Side)**
**Haupt-einheit (Bestückungsseite)**




| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
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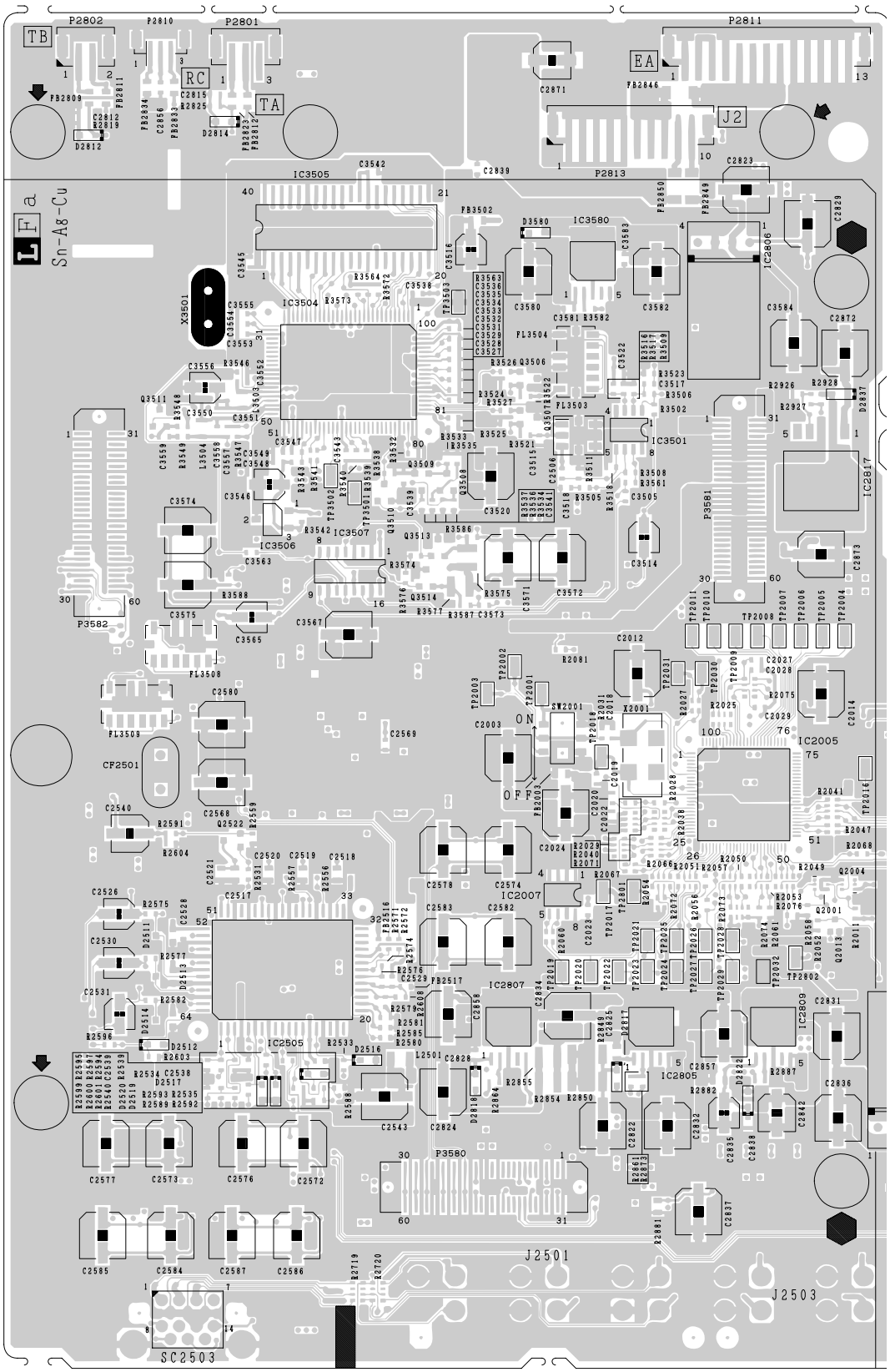
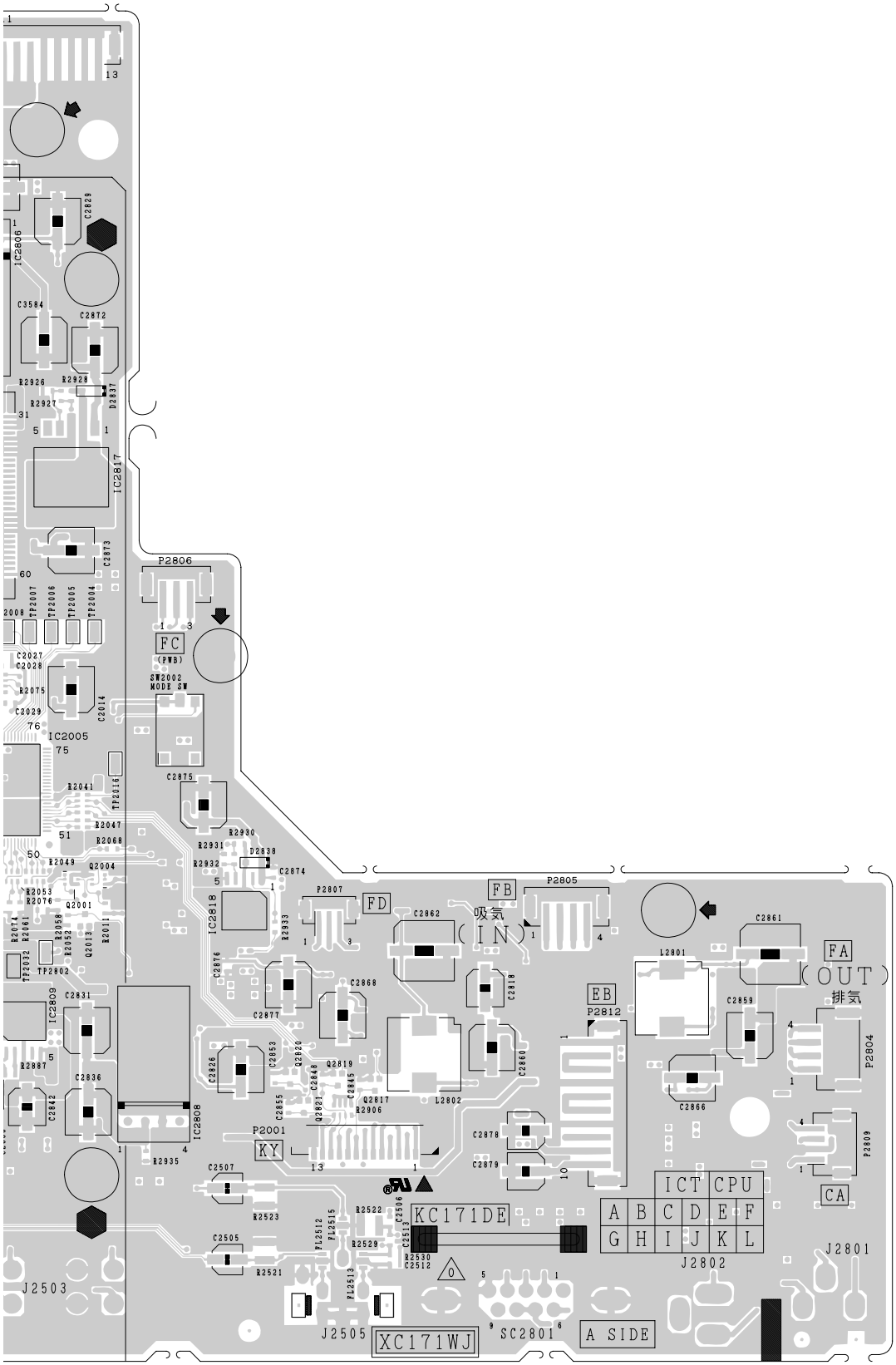



**Main Unit (Wiring Side)**
**Haupt-einheit (Leiterbahnseite)**




| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
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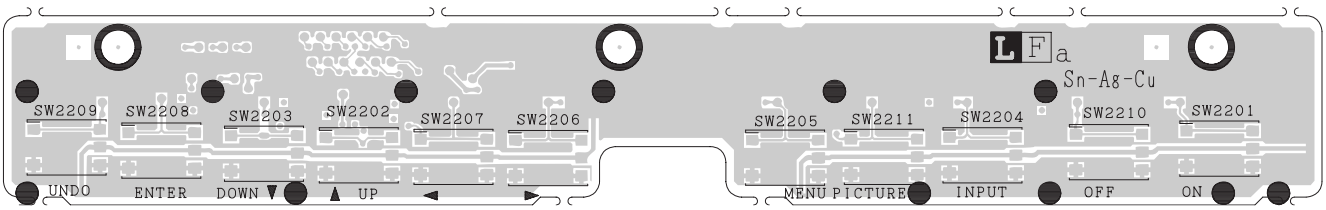
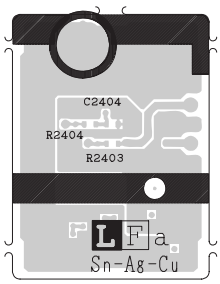
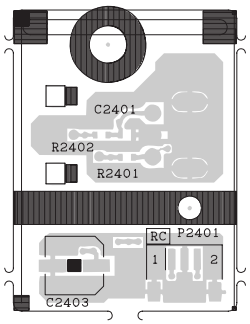


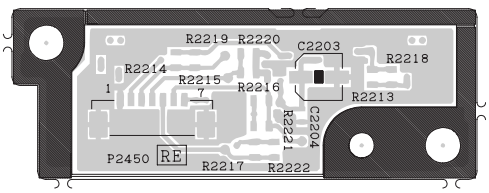

**Key Unit (Component Side)**
**Taste-Einheit (Bestückungsseite)**



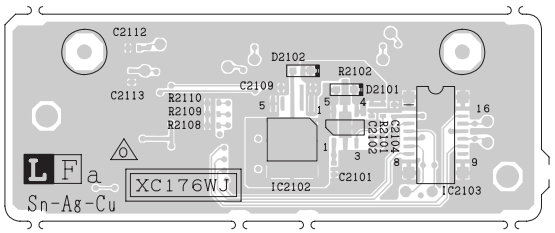

**R/C Receiver (Rear) Unit (Component Side)**
**Einlasseinheit (Hinter) (Bestückungsseite)**



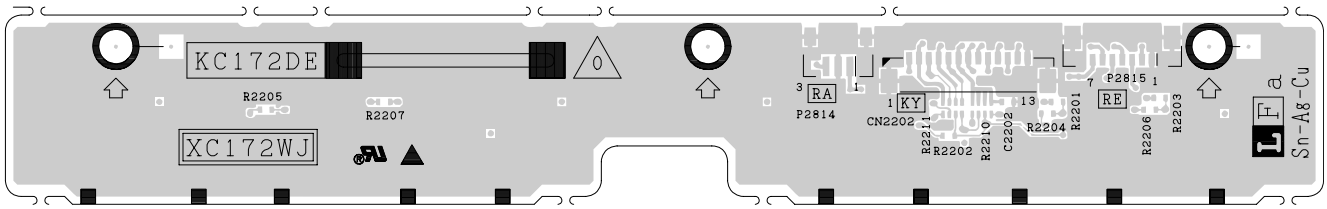

**R/C Receiver (Front) Unit (Component Side)**
**Einlasseinheit (Vorder) (Bestückungsseite)**



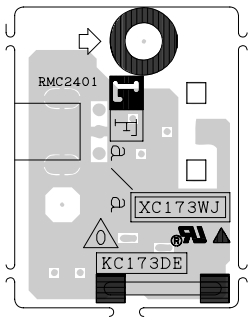

**LED Unit (Component Side)**
**LED-Einheit (Bestückungsseite)**



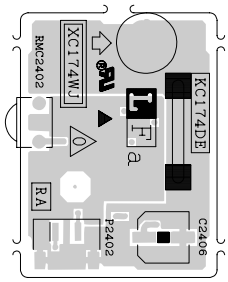

**IRIS DRIVE Unit (Component Side)**
**BLENDENTREIBER-Einheit**
**(Bestückungsseite)**



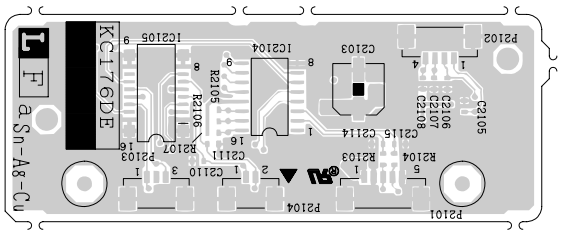

**Key Unit (Wiring Side)**
**Taste-Einheit (Leiterbahnseite)**



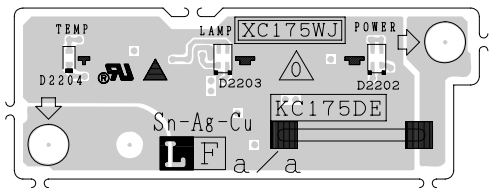

**R/C Receiver (Front)Unit (Wiring Side)**
**Einlasseinheit (Vorder) (Leiterbahnseite)**



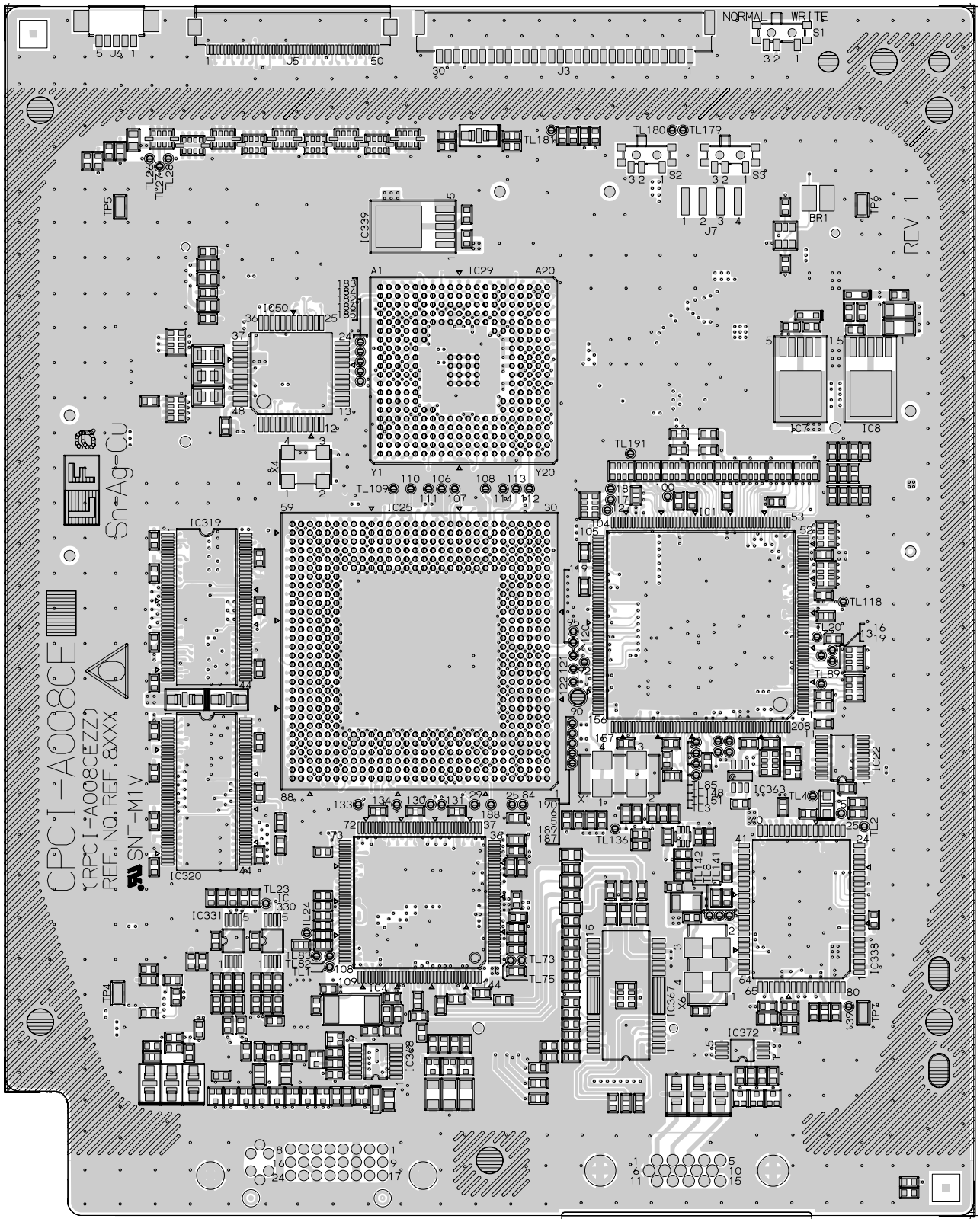

**R/C Receiver (Rear)Unit (Wiring Side)**
**Einlasseinheit (Hinter) (Leiterbahnseite)**



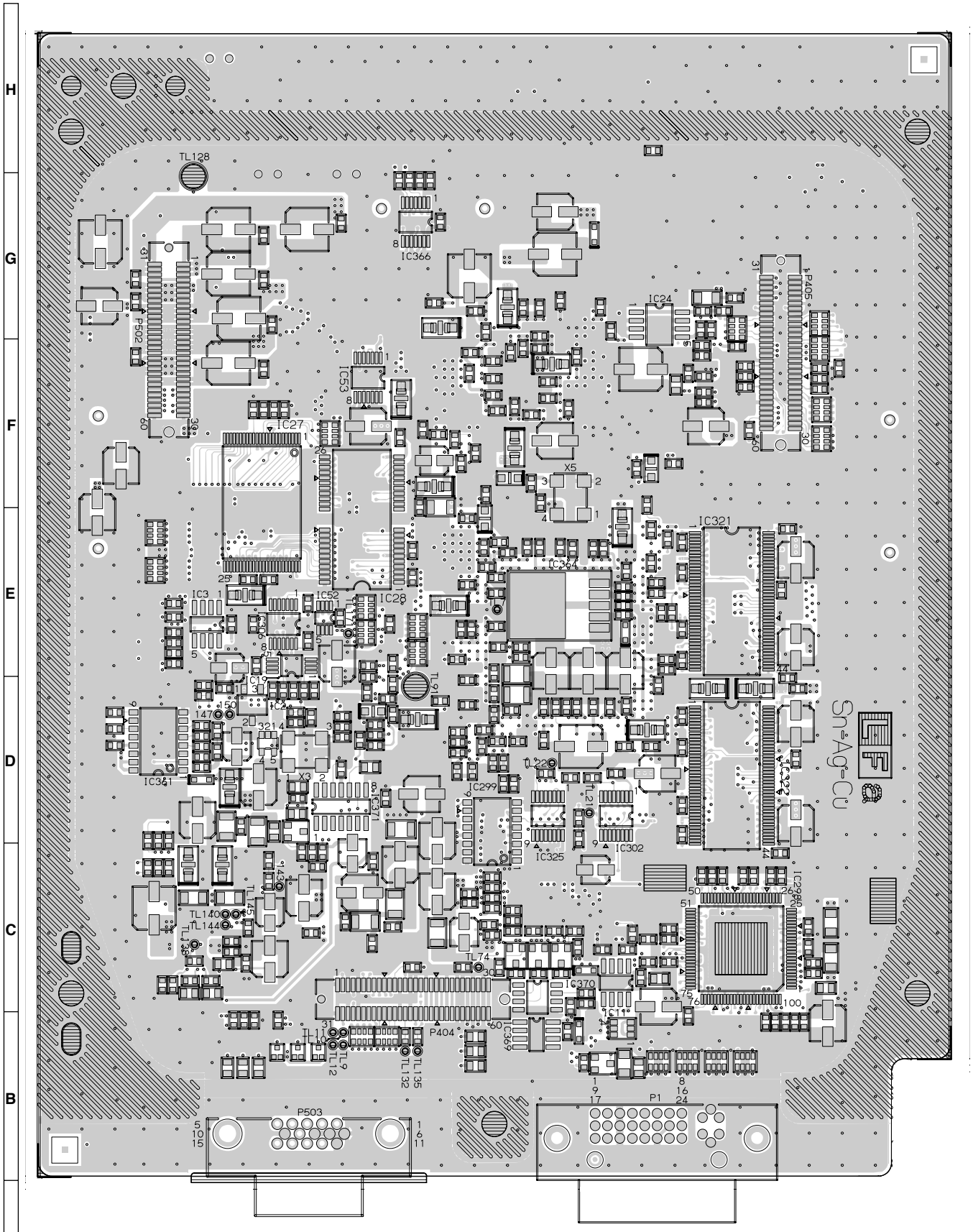

**IRIS DRIVE Unit (Wiring Side)**
**BLENDENTREIBER-Einheit**
**(Leiterbahnseite)**



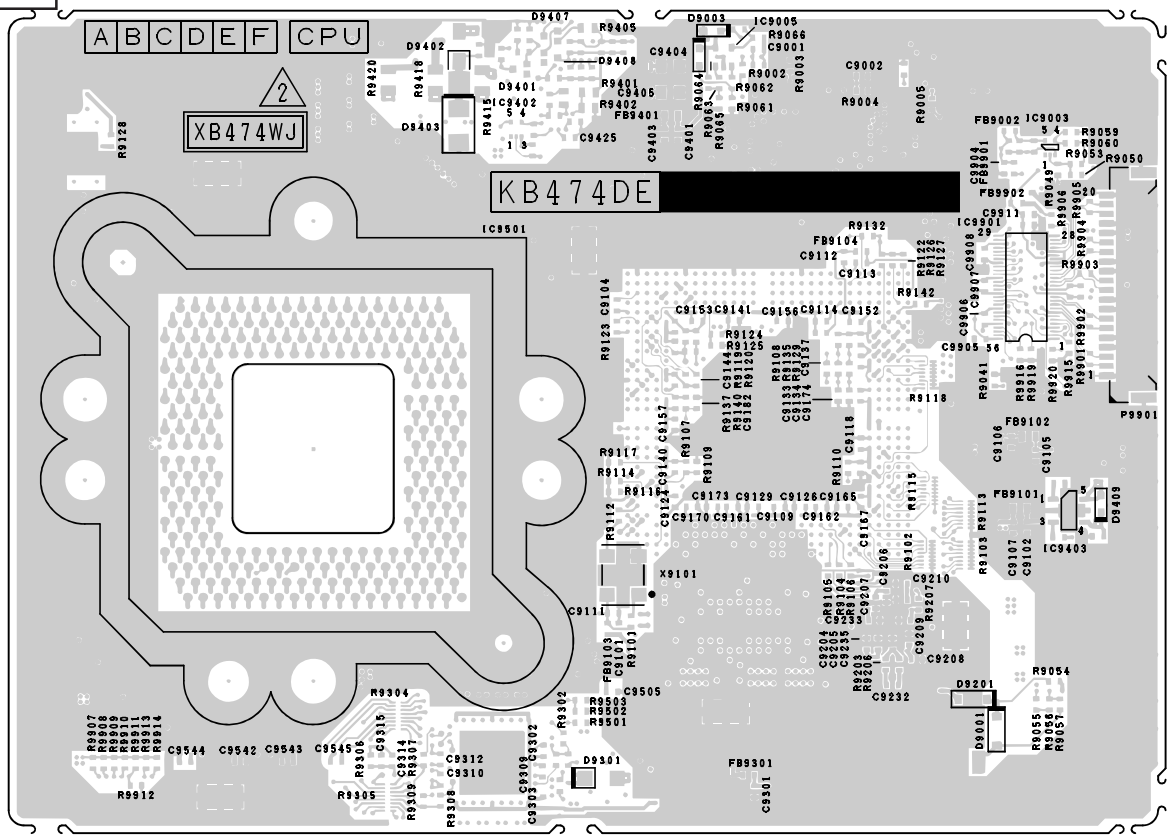

**LED Unit (Wiring Side)**
**LED-Einheit (Leiterbahnseite)**



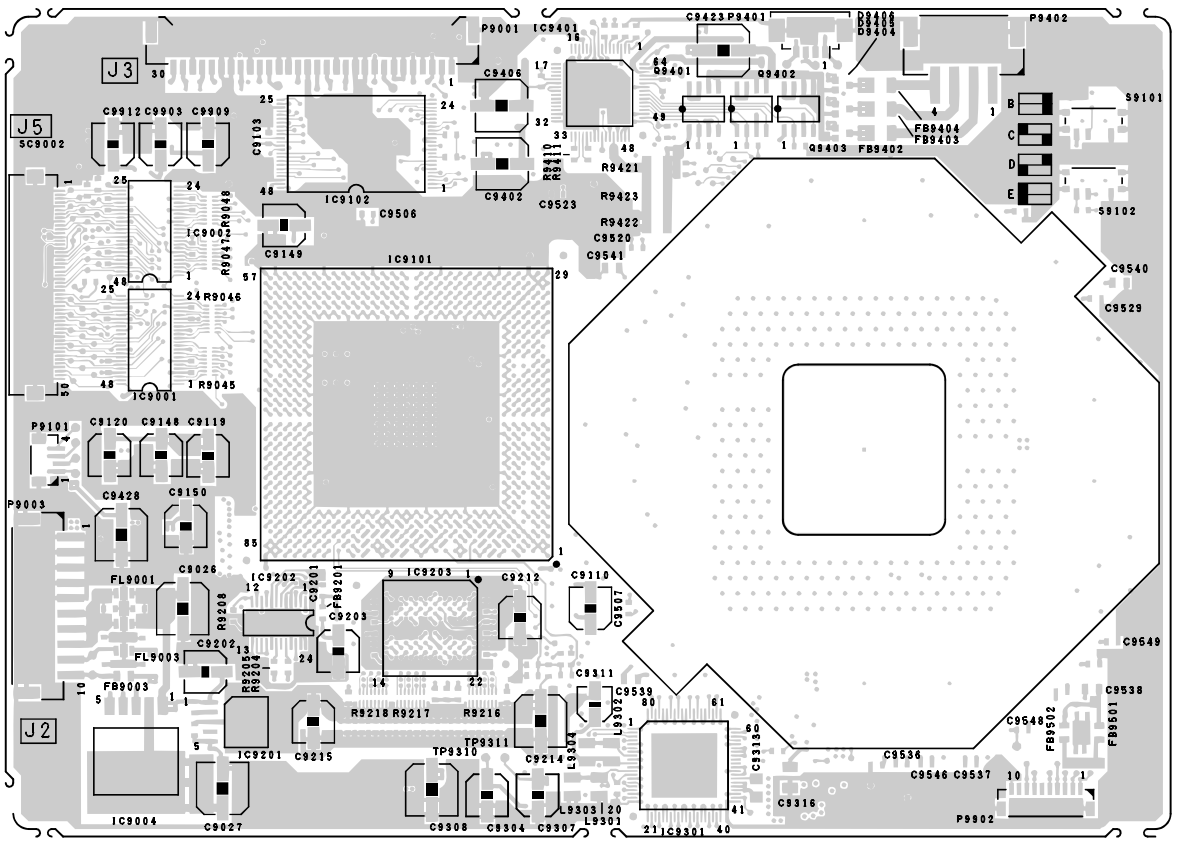

**PC I/F Unit (Component Side)**
**PC-I/F-einheit (Bestückungsseite)**




**PC I/F Unit (Wiring Side)**
**PC-I/F-einheit (Leiterbahnseite)**




**FORMATTER Unit (Component Side)**
**FORMATTER-einheit (Bestückungsseite)**




**FORMATTER Unit (Wiring Side)**
**FORMATTER-einheit (Leiterbahnseite)**

# PARTS LIST

## PARTS REPLACEMENT

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

## "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

in **USA**: Contact your nearest SHARP Parts Distributor.
For location of SHARP Parts Distributor,
Please call Toll-Free; 1-800-BE-SHARP

in **CANADA**: Contact SHARP Electronics of Canada Limited
Phone (416) 890-2100.

★ MARK: SPARE PARTS-DELIVERY SECTION

# ERSATZTEILLISTE

## AUSTAUSCH VON TEILEN

Ersatzteile, die besondere Sicherheitseigenschften haben, sind in dieser Anleitung markiert. Elektrische Komponenten mit solchen Eigenshaften sind in den Ersatzteil durch "⚠" gekenn-zeichnet.
Der Gebrauch von Ersatzteilen, die nicht deselben Sicherheitseigenschaften haben wie die vom Hersteller empfohlenen ud in der Bedienungsanleitung angegebenen, können zur Ursache von Blitzeinschlägen, Bränden und anderen Gefahren werden.

## "WIE MAN ERSATSTEILE BESTELLT"

Damit Ihre Bestellung promt und korrekt ausgeführt wird, geben Sie bitte folgende Informationen.

1. MODELL NR.
2. REF. NR.
3. ERSATZTEIL NR.
4. BESCHREIBUNG
5. KODE
6. QUANTITÄT

★ MARKIERUNG : ERSATZTEILE-LIEFERUNG

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

## PRINTED WIRING BOARD ASSEMBLIES
## *(NOT REPLACEMENT ITEM)*

| | | | | |
|---|---|---|---|---|
| DUNTKC171DE01 | - | Main Unit | | — |
| DUNTKC172DE01 | - | Key Unit | | — |
| DUNTKC173DE01 | - | Front R/C Unit | | — |
| DUNTKC174DE01 | - | Rear R/C Unit | | — |
| DUNTKC175DE01 | - | LED Unit | | — |
| DUNTKC176DE01 | - | IRIS DRIVE Unit | | — |
| DUNTKB474FE03 | - | Formatter Unit | | — |
| RDENCA055WJZZ | - | Power Unit | | — |
| CPCi-A008CE01 | - | PC I/F Unit | | — |
| RDENCA027WJZZ | - | Ballast Unit<br>(Unit Replacement Item) | | CA |

## DUNTKC171DE01
## MAIN UNIT

### INTEGRATED CIRCUITS

| | | | | |
|---|---|---|---|---|
| IC2001 | VHiMAX3224E-1Y | J | MAX3224ECAP | AU |
| IC2002 | VHiMM1573DN-1Y | J | MM1573DNRE | AD |
| IC2003 | VHiSN2G53CT-1Y | J | SN74AHC2G53HDC | AE |
| IC2004 | VHiSN2G32CT-1Y | J | SN74AHC2G32HDC | AE |
| IC2005 | RH-iXA825WJN1Q | J | IC | BD |
| IC2006 | VHiPST600IM-1Y | J | IC-PST600IMT | AE |
| IC3506 | VHiPST600IM-1Y | J | IC-PST600IMT | AE |
| IC2007 | VHiS24C02A/-1Y | J | S-24C02AFJ-TB | AK |
| IC2501 | VHiLV4053AT-1Y | J | SN74LV4053APWR | AE |
| IC2506 | VHiLV4053AT-1Y | J | SN74LV4053APWR | AE |
| IC2505 | VHiMM1519XQ-1Q | J | MM1519XQ | AW |
| IC2508 | VHiTL712CPS-1Y | J | TL712CPS | AH |
| IC2511 | VHiTL712CPS-1Y | J | TL712CPS | AH |
| IC2512 | VHiTL712CPS-1Y | J | TL712CPS | AH |
| IC2513 | VHiTL712CPS-1Y | J | TL712CPS | AH |
| IC2509 | VHiLV125AT+-1Y | J | SN74LV125APWR | AE |
| IC2510 | VHiNJM2903V-1Y | J | NJM2903V | AD |
| IC2514 | VHiTHC4538T-1Y | J | TC74HC4538AFT | AL |
| IC2515 | VHiT7SET08U-1Y | J | TC7SET08FU | AD |
| IC2811 | VHiT7SET08U-1Y | J | TC7SET08FU | AD |
| IC2812 | VHiT7SET08U-1Y | J | TC7SET08FU | AD |
| IC2814 | VHiT7SET08U-1Y | J | TC7SET08FU | AD |
| IC2815 | VHiT7SET08U-1Y | J | TC7SET08FU | AD |
| IC2816 | VHiT7SET08U-1Y | J | TC7SET08FU | AD |
| IC2805 | VHiPQ09DZ1U-1Y | J | PQ09DZ1U | AG |
| IC2806 | VHiPQ30RV211E | J | PQ30RV21 | AK |
| IC2807 | VHiPQ050DZ1-1Y | J | PQ050DZ01Z | AE |
| IC3580 | VHiPQ050DZ1-1Y | J | PQ050DZ01Z | AE |
| IC2808 | VHiPQ20VB1E-1 | J | PQ20VB1E | AH |
| IC2809 | VHiPQ033DZ1-1Y | J | PQ033DZ01ZP | AE |
| IC2817 | VHiPQ05VY3H-1Y | J | PQ05VY3H3ZP | AK |
| IC2818 | VHiPQ20VZ11-1Y | J | PQ20VZ11 | AG |
| IC3501 | VHiTK15420/-1Y | J | TK15420MTL | AG |
| IC3504 | VHiPD64082/-1S | J | UPD64082GF-3BA | BC |
| IC3505 | RH-iX3420CEZZY | J | MSM5416258B-28 | AT |
| IC3507 | VHiM52055FP-1Y | J | M52055FP | AH |

### TRANSISTORS

| | | | | |
|---|---|---|---|---|
| Q2001 | VSHN2A01FU/-1Y | J | HN2A01FU | AC |
| Q2002 | VSRN4982///-1Y | J | RN4982 | AB |
| Q2004 | VSRN4904///-1Y | J | RN4904 | AB |

# DUNTKC171DE01
## MAIN UNIT(Continued)

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| Q2013 | VSDTC144EUA-1Y | J | DTC144EUA | AB |
| Q2518 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q2519 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q2520 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q2522 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q2523 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q2526 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q2527 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q2528 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q2529 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q2530 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q2531 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q2802 | VSDTC144EUA-1Y | J | DTC144EUA | AB |
| Q2810 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q2811 | VSDTC144EUA-1Y | J | DTC144EUA | AB |
| Q2813 | VSDTC144EUA-1Y | J | DTC144EUA | AB |
| Q2815 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q2816 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q2817 | VSDTC144EUA-1Y | J | DTC144EUA | AB |
| Q2819 | VSDTC144EUA-1Y | J | DTC144EUA | AB |
| Q2820 | VSDTC144EUA-1Y | J | DTC144EUA | AB |
| Q2821 | VSDTC144EUA-1Y | J | DTC144EUA | AB |
| Q2822 | VS2SB1302S/-1Y | J | 2SB1302S | AD |
| Q2823 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q2824 | VS2SB1302S/-1Y | J | 2SB1302S | AD |
| Q2825 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q3502 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3503 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3504 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3505 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3506 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3507 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3508 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q3509 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3510 | VS2SC3928AR-1Y | J | 2SC3928AR | AB |
| Q3511 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3512 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3513 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3514 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3515 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |
| Q3516 | VS2SA1530AR-1Y | J | 2SA1530AR | AB |

### DIODES

| | | | | |
|---|---|---|---|---|
| D2022 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2024 | RH-EX1230CEZZY | J | Zener Diode | AB |
| D2501 | VHDKDS226//-1Y | J | KDS226 | AB |
| D2502 | VHDKDS226//-1Y | J | KDS226 | AB |
| D2503 | VHDKDS226//-1Y | J | KDS226 | AB |
| D2508 | VHDKDS226//-1Y | J | KDS226 | AB |
| D2509 | VHDKDS226//-1Y | J | KDS226 | AB |
| D2510 | VHDKDS226//-1Y | J | KDS226 | AB |
| D2511 | VHDKDS226//-1Y | J | KDS226 | AB |
| D2513 | VHDKDS226//-1Y | J | KDS226 | AB |
| D2514 | VHDKDS226//-1Y | J | KDS226 | AB |
| D2515 | VHDKDS226//-1Y | J | KDS226 | AB |
| D2516 | RH-EX1264CEZZY | J | Zener Diode | AB |
| D2519 | RH-EX1264CEZZY | J | Zener Diode | AB |
| D2520 | RH-EX1264CEZZY | J | Zener Diode | AB |
| D2522 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2524 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2802 | VHDDAN202K/-1Y | J | DAN202K | AB |
| D2805 | RH-EX1271CEZZY | J | Zener Diode, 12V | AB |
| D2806 | RH-EX1271CEZZY | J | Zener Diode, 12V | AB |
| D2807 | RH-EX1271CEZZY | J | Zener Diode, 12V | AB |
| D2808 | RH-EX1271CEZZY | J | Zener Diode, 12V | AB |
| D2809 | VHDDAN202K/-1Y | J | DAN202K | AB |
| D2811 | RH-EX1271CEZZY | J | Zener Diode, 12V | AB |
| D2812 | RH-EX1247CEZZY | J | Zener Diode, 5.6V | AB |
| D2813 | RH-EX1271CEZZY | J | Zener Diode, 12V | AB |
| D2814 | RH-EX1247CEZZY | J | Zener Diode, 5.6V | AB |
| D2816 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2817 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2818 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2819 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2820 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2821 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2822 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2823 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2830 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2831 | VHDSC8024//-1Y | J | SC8024 | AC |
| D2832 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2833 | VHDSC8024//-1Y | J | SC8024 | AC |
| D2834 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2835 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2837 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2838 | VHDHSU119//-1Y | J | HSU119 | AB |
| D2839 | VHDHSU119//-1Y | J | HSU119 | AB |
| D3580 | VHDHSU119//-1Y | J | HSU119 | AB |

### PACKAGED CIRCUITS

| | | | | |
|---|---|---|---|---|
| X2001 | RCRSB0286CEZZY | J | Crystal (7.3728MHz) | AH |
| X3501 | RCRSB0258CEZZ | J | Crystal (20MHz) | AG |

### FILTERS AND COILS

| | | | | |
|---|---|---|---|---|
| FL2501 | RFILN0003TAZZY | J | Filter | AD |
| FL2502 | RFILN0003TAZZY | J | Filter | AD |
| FL2503 | RFILN0003TAZZY | J | Filter | AD |
| FL2504 | RFILN0003TAZZY | J | Filter | AD |
| FL2508 | RFILN0003TAZZY | J | Filter | AD |
| FL2510 | RFILN0003TAZZY | J | Filter | AD |
| FL2512 | RFILN0017TAZZY | J | Filter | AC |
| FL2513 | RFILN0017TAZZY | J | Filter | AC |
| FL2515 | RFILN0017TAZZY | J | Filter | AC |
| FL3503 | RCILV0108GEZZY | J | Band-Pass Coil | AG |
| FL3504 | RCILF0306CEZZY | J | Filter | AH |
| FL3508 | RCILF0306CEZZY | J | Filter | AH |
| FL3509 | RCILF0306CEZZY | J | Filter | AH |
| L2501 | VP-NM680K3R5NY | J | Peaking 68μH | AB |
| L2801 | RCILP0303TAZZY | J | Coil | AG |
| L2802 | RCILP0303TAZZY | J | Coil | AG |
| L3501 | VPAWM220J4R0NY | J | Peaking 22μH | AB |
| L3502 | VPAWM220J4R0NY | J | Peaking 22μH | AB |
| L3503 | VPAWM100J2R6NY | J | Peaking 10μH | AB |
| L3504 | VPAWM4R7J1R7NY | J | Peaking 4.7μH | AC |

### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| C2002 | VCKYTV1CB224KY | J | 0.22 | 16V | Ceramic | AB |
| C2003 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C2005 | VCKYTV1CB105KY | J | 1 | 16V | Ceramic | AC |
| C2006 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2008 | VCKYTV1CB105KY | J | 1 | 16V | Ceramic | AC |
| C2010 | VCKYTV1CB105KY | J | 1 | 16V | Ceramic | AC |
| C2012 | VCEAPF1CW107MY | J | 100 | 16V | Electrolytic | AC |
| C2013 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C2014 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C2015 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2016 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C2017 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2018 | VCCCCY1HH220JY | J | 22p | 50V | Ceramic | AA |
| C2019 | VCCCCY1HH220JY | J | 22p | 50V | Ceramic | AA |
| C2020 | VCKYCY1CB104KY | J | 0.1 | 16V | Ceramic | AB |
| C2021 | VCKYCY1CB104KY | J | 0.1 | 16V | Ceramic | AB |
| C2022 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2023 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2024 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C2027 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C2028 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C2029 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C2501 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2505 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C2506 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C2507 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C2508 | VCEAPF1HW105MY | J | 1 | 50V | Electrolytic | AB |
| C2509 | VCEAPF1HW105MY | J | 1 | 50V | Electrolytic | AB |
| C2510 | VCEAPF1HW105MY | J | 1 | 50V | Electrolytic | AB |
| C2513 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C2517 | VCKYTV1CB105KY | J | 1 | 16V | Ceramic | AC |
| C2518 | VCKYTV1CB105KY | J | 1 | 16V | Ceramic | AC |

# DUNTKC171DE01
## MAIN UNIT(Continued)

| Ref. No. | Part No. | ★ | | | Description | Code |
|---|---|---|---|---|---|---|
| C2519 | VCKYTV1CB105KY | J | 1 | 16V | Ceramic | AC |
| C2520 | VCKYTV1CB105KY | J | 1 | 16V | Ceramic | AC |
| C2521 | VCKYTV1CB105KY | J | 1 | 16V | Ceramic | AC |
| C2526 | VCEAPF1HW105MY | J | 1 | 50V | Electrolytic | AB |
| C2528 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2529 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2530 | VCEAPF1HW105MY | J | 1 | 50V | Electrolytic | AB |
| C2531 | VCEAPF1HW105MY | J | 1 | 50V | Electrolytic | AB |
| C2537 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2538 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2539 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2543 | VCEAPF1CW107MY | J | 100 | 16V | Electrolytic | AC |
| C2544 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2568 | VCEAPF1CW476MY | J | 47 | 16V | Electrolytic | AC |
| C2572 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C2573 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C2574 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C2576 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C2577 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C2578 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C2586 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C2587 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C2588 | VCCCCY1HH330JY | J | 33p | 50V | Ceramic | AA |
| C2589 | VCEAPF0JW226MY | J | 22 | 6.3V | Electrolytic | AB |
| C2590 | VCE9PF1CW106MY | J | 10 | 16V | Elect.(N,P) | AC |
| C2591 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2592 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2593 | VCE9PF1CW106MY | J | 10 | 16V | Elect.(N,P) | AC |
| C2594 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2595 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2596 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2597 | VCCCCY1HH330JY | J | 33p | 50V | Ceramic | AA |
| C2598 | VCE9PF1CW106MY | J | 10 | 16V | Elect.(N,P) | AC |
| C2599 | VCE9PF1CW106MY | J | 10 | 16V | Elect.(N,P) | AC |
| C2600 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2601 | VCKYCY1HB472KY | J | 4700p | 50V | Ceramic | AA |
| C2602 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2603 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2604 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2605 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2606 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2607 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2803 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C2805 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C2812 | VCKYCY1CB104KY | J | 0.1 | 16V | Ceramic | AB |
| C2815 | VCKYCY1CB104KY | J | 0.1 | 16V | Ceramic | AB |
| C2818 | VCEAPF1CW226MY | J | 22 | 16V | Electrolytic | AB |
| C2822 | VCEAPF1CW107MY | J | 100 | 16V | Electrolytic | AC |
| C2823 | VCEAPF1CW107MY | J | 100 | 16V | Electrolytic | AC |
| C2824 | VCEAPF1CW107MY | J | 100 | 16V | Electrolytic | AC |
| C2825 | VCKYTV1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C2826 | VCEAPF1EW336MY | J | 33 | 25V | Electrolytic | AD |
| C2827 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2828 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2829 | VCEAPF1CN107MY | J | 100 | 16V | Electrolytic | AD |
| C2830 | VCKYTV1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C2832 | VCEAPF1CN107MY | J | 100 | 16V | Electrolytic | AD |
| C2833 | VCKYTV1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C2834 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C2835 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C2836 | VCEAPF1CN107MY | J | 100 | 16V | Electrolytic | AD |
| C2837 | VCEAPF1EW336MY | J | 33 | 25V | Electrolytic | AD |
| C2838 | VCKYCY1CB104KY | J | 0.1 | 16V | Ceramic | AB |
| C2839 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2841 | VCKYCY1CB104KY | J | 0.1 | 16V | Ceramic | AB |
| C2842 | VCEAPF0JW336MY | J | 33 | 6.3V | Electrolytic | AB |
| C2844 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2846 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2849 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2852 | VCKYCY1CB104KY | J | 0.1 | 16V | Ceramic | AB |
| C2854 | VCKYCY1CB104KY | J | 0.1 | 16V | Ceramic | AB |
| C2856 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2857 | VCEAPF1CN107MY | J | 100 | 16V | Electrolytic | AD |
| C2859 | VCEAPF1CW107MY | J | 100 | 16V | Electrolytic | AC |
| C2860 | VCEAPF1CW107MY | J | 100 | 16V | Electrolytic | AC |
| C2861 | VCEAPX1CW477MY | J | 470 | 16V | Electrolytic | AE |
| C2862 | VCEAPX1CW477MY | J | 470 | 16V | Electrolytic | AE |
| C2869 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2870 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2871 | VCAAPC1AJ336MY | J | 33 | 10V | Electrolytic | AG |
| C2872 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C2873 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C2874 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2875 | VCEAPF1CW107MY | J | 100 | 16V | Electrolytic | AC |
| C2876 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2877 | VCEAPF1CW107MY | J | 100 | 16V | Electrolytic | AC |
| C2878 | VCEAPF1HW475MY | J | 4.7 | 50V | Electrolytic | AC |
| C2879 | VCEAPF1HW475MY | J | 4.7 | 50V | Electrolytic | AC |
| C3505 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3506 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C3507 | VCCCCY1HH120JY | J | 12p | 50V | Ceramic | AA |
| C3508 | VCCCCY1HH100DY | J | 10p | 50V | Ceramic | AA |
| C3510 | VCCCCY1HH6R0DY | J | 6.0p | 50V | Ceramic | AA |
| C3511 | VCCCCY1HH120JY | J | 12p | 50V | Ceramic | AA |
| C3512 | VCCCCY1HH270JY | J | 27p | 50V | Ceramic | AA |
| C3513 | VCCCCY1HH270JY | J | 27p | 50V | Ceramic | AA |
| C3514 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C3515 | VCCCCY1HH270JY | J | 27p | 50V | Ceramic | AA |
| C3516 | VCEAPF0JW226MY | J | 22 | 6.3V | Electrolytic | AB |
| C3517 | VCCCCY1HH270JY | J | 27p | 50V | Ceramic | AA |
| C3518 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C3520 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C3521 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3522 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3523 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3524 | VCEAPF1HW105MY | J | 1 | 50V | Electrolytic | AB |
| C3525 | VCEAPF0JW226MY | J | 22 | 6.3V | Electrolytic | AB |
| C3526 | VCEAPF0JW226MY | J | 22 | 6.3V | Electrolytic | AB |
| C3527 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3528 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3529 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3530 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C3531 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3532 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3533 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3534 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3535 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3536 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3537 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3538 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3539 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3540 | VCEAPF1HW105MY | J | 1 | 50V | Electrolytic | AB |
| C3541 | VCCCCY1HH471JY | J | 470p | 50V | Ceramic | AA |
| C3543 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3545 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3546 | VCEAPF1HW474MY | J | 0.47 | 50V | Electrolytic | AC |
| C3547 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C3548 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3549 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3550 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3551 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3552 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3553 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3554 | VCCCCY1HH270JY | J | 27p | 50V | Ceramic | AA |
| C3555 | VCCCCY1HH220JY | J | 22p | 50V | Ceramic | AA |
| C3556 | VCEAPF0JW226MY | J | 22 | 6.3V | Electrolytic | AB |
| C3557 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3558 | VCCCCY1HH391JY | J | 390p | 50V | Ceramic | AB |
| C3559 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3563 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3565 | VCEAPF1CW106MY | J | 10 | 16V | Electrolytic | AB |
| C3567 | VCEAPF1CW107MY | J | 100 | 16V | Electrolytic | AC |
| C3570 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3571 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C3572 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C3573 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3574 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |
| C3575 | VCEAPF0JW227MY | J | 220 | 6.3V | Electrolytic | AD |

# DUNTKC171DE01
## MAIN UNIT(Continued)

| Ref. No. | Part No. | ★ | | | Description | Code |
|---|---|---|---|---|---|---|
| C3576 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3577 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3580 | VCEAPF1CW476MY | J | 47 | 16V | Electrolytic | AC |
| C3581 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C3582 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |
| C3583 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |

### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R2010 | VRS-TV1JD3R9JY | J | 3.9 | 1/16W | Metal Oxide | AA |
| R2011 | VRS-CY1JF473JY | J | 47k | 1/16W | Metal Oxide | AA |
| R2012 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2013 | VRS-CY1JF154JY | J | 150k | 1/16W | Metal Oxide | AA |
| R2018 | VRS-CY1JF153JY | J | 15k | 1/16W | Metal Oxide | AA |
| R2025 | VRS-CH1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2028 | VRS-CY1JF100JY | J | 10 | 1/16W | Metal Oxide | AA |
| R2029 | VRS-CY1JF100JY | J | 10 | 1/16W | Metal Oxide | AA |
| R2031 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2038 | VRS-CH1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2039 | VRS-CY1JF682JY | J | 6.8k | 1/16W | Metal Oxide | AA |
| R2040 | VRS-CH1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2041 | VRS-CH1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2043 | VRS-CY1JF333JY | J | 33k | 1/16W | Metal Oxide | AA |
| R2047 | VRS-CJ1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2049 | VRS-CH1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2050 | VRS-CH1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2051 | VRS-CH1JF100JY | J | 10 | 1/16W | Metal Oxide | AA |
| R2053 | VRS-CH1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2054 | VRS-CH1JF100JY | J | 10 | 1/16W | Metal Oxide | AA |
| R2056 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R2057 | VRS-CY1JF100JY | J | 10 | 1/16W | Metal Oxide | AA |
| R2058 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R2060 | VRS-CJ1JF151JY | J | 150 | 1/16W | Metal Oxide | AA |
| R2061 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2066 | VRS-CH1JF100JY | J | 10 | 1/16W | Metal Oxide | AA |
| R2067 | VRS-CJ1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2068 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2070 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2071 | VRS-CH1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2072 | VRS-CJ1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2073 | VRS-CH1JF823JY | J | 82k | 1/16W | Metal Oxide | AA |
| R2074 | VRS-CY1JF473JY | J | 47k | 1/16W | Metal Oxide | AA |
| R2075 | VRS-CH1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2076 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2078 | VRS-CH1JF823JY | J | 82k | 1/16W | Metal Oxide | AA |
| R2081 | VRS-CY1JF100JY | J | 10 | 1/16W | Metal Oxide | AA |
| R2501 | VRS-TW2ED750JY | J | 75 | 1/4W | Metal Oxide | AA |
| R2502 | VRS-TW2ED750JY | J | 75 | 1/4W | Metal Oxide | AA |
| R2503 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2504 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2505 | VRS-TW2ED750JY | J | 75 | 1/4W | Metal Oxide | AA |
| R2506 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2507 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2512 | VRS-TW2ED750JY | J | 75 | 1/4W | Metal Oxide | AA |
| R2513 | VRS-TW2ED750JY | J | 75 | 1/4W | Metal Oxide | AA |
| R2521 | VRS-TW2ED750JY | J | 75 | 1/4W | Metal Oxide | AA |
| R2522 | VRS-TW2ED750JY | J | 75 | 1/4W | Metal Oxide | AA |
| R2523 | VRS-TW2ED750JY | J | 75 | 1/4W | Metal Oxide | AA |
| R2531 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2533 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2535 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2536 | VRS-CY1JF220JY | J | 22 | 1/16W | Metal Oxide | AA |
| R2537 | VRS-CY1JF220JY | J | 22 | 1/16W | Metal Oxide | AA |
| R2538 | VRS-CY1JF220JY | J | 22 | 1/16W | Metal Oxide | AA |
| R2539 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2540 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2541 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2542 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2559 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2571 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2572 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2575 | VRS-CY1JF220JY | J | 22 | 1/16W | Metal Oxide | AA |
| R2576 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2577 | VRS-CY1JF220JY | J | 22 | 1/16W | Metal Oxide | AA |
| R2579 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2580 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2581 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2582 | VRS-CY1JF220JY | J | 22 | 1/16W | Metal Oxide | AA |
| R2585 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2588 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2592 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2593 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2594 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2595 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2599 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2603 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2615 | VRS-TW2ED750JY | J | 75 | 1/4W | Metal Oxide | AA |
| R2640 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2641 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2642 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2644 | VRS-TW2ED391JY | J | 390 | 1/4W | Metal Oxide | AA |
| R2646 | VRS-CY1JF680JY | J | 68 | 1/16W | Metal Oxide | AA |
| R2647 | VRS-TW2ED391JY | J | 390 | 1/4W | Metal Oxide | AA |
| R2649 | VRS-CY1JF680JY | J | 68 | 1/16W | Metal Oxide | AA |
| R2650 | VRS-TW2ED391JY | J | 390 | 1/4W | Metal Oxide | AA |
| R2652 | VRS-CY1JF680JY | J | 68 | 1/16W | Metal Oxide | AA |
| R2653 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2656 | VRS-TW2ED391JY | J | 390 | 1/4W | Metal Oxide | AA |
| R2663 | VRS-CY1JF680JY | J | 68 | 1/16W | Metal Oxide | AA |
| R2665 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2666 | VRS-CY1JF271JY | J | 270 | 1/16W | Metal Oxide | AA |
| R2668 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2669 | VRS-CY1JF330JY | J | 33 | 1/16W | Metal Oxide | AA |
| R2670 | VRS-CY1JF392JY | J | 3.9k | 1/16W | Metal Oxide | AA |
| R2671 | VRS-CY1JF183JY | J | 18k | 1/16W | Metal Oxide | AA |
| R2672 | VRS-CY1JF472JY | J | 4.7k | 1/16W | Metal Oxide | AA |
| R2673 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2674 | VRS-CY1JF333JY | J | 33k | 1/16W | Metal Oxide | AA |
| R2675 | VRS-CY1JF183JY | J | 18k | 1/16W | Metal Oxide | AA |
| R2676 | VRS-CY1JF472JY | J | 4.7k | 1/16W | Metal Oxide | AA |
| R2677 | VRS-CY1JF391JY | J | 390 | 1/16W | Metal Oxide | AA |
| R2678 | VRS-CY1JF391JY | J | 390 | 1/16W | Metal Oxide | AA |
| R2679 | VRS-CY1JF153JY | J | 15k | 1/16W | Metal Oxide | AA |
| R2681 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R2682 | VRS-CY1JF222JY | J | 2.2k | 1/16W | Metal Oxide | AA |
| R2683 | VRS-CY1JF391JY | J | 390 | 1/16W | Metal Oxide | AA |
| R2684 | VRS-CY1JF222JY | J | 2.2k | 1/16W | Metal Oxide | AA |
| R2685 | VRS-CY1JF391JY | J | 390 | 1/16W | Metal Oxide | AA |
| R2686 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2687 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2688 | VRS-CY1JF222JY | J | 2.2k | 1/16W | Metal Oxide | AA |
| R2689 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2690 | VRS-CY1JF271JY | J | 270 | 1/16W | Metal Oxide | AA |
| R2691 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2692 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R2693 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R2697 | VRS-CY1JF153JY | J | 15k | 1/16W | Metal Oxide | AA |
| R2700 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2703 | VRS-CY1JF333JY | J | 33k | 1/16W | Metal Oxide | AA |
| R2704 | VRS-CY1JF330JY | J | 33 | 1/16W | Metal Oxide | AA |
| R2705 | VRS-CY1JF392JY | J | 3.9k | 1/16W | Metal Oxide | AA |
| R2706 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2707 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2708 | VRS-CY1JF330JY | J | 33 | 1/16W | Metal Oxide | AA |
| R2709 | VRS-CY1JF330JY | J | 33 | 1/16W | Metal Oxide | AA |
| R2710 | VRS-CY1JF473JY | J | 47k | 1/16W | Metal Oxide | AA |
| R2711 | VRS-CY1JF392JY | J | 3.9k | 1/16W | Metal Oxide | AA |
| R2712 | VRS-CY1JF392JY | J | 3.9k | 1/16W | Metal Oxide | AA |
| R2714 | VRS-CY1JF222JY | J | 2.2k | 1/16W | Metal Oxide | AA |
| R2715 | VRS-CY1JF222JY | J | 2.2k | 1/16W | Metal Oxide | AA |
| R2716 | VRS-CY1JF222JY | J | 2.2k | 1/16W | Metal Oxide | AA |
| R2717 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2718 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2719 | VRS-CH1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R2803 | VRS-CY1JF472JY | J | 4.7k | 1/16W | Metal Oxide | AA |
| R2804 | VRS-CY1JF182JY | J | 1.8k | 1/16W | Metal Oxide | AA |
| R2805 | VRS-CY1JF472JY | J | 4.7k | 1/16W | Metal Oxide | AA |
| R2806 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2807 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |

# DUNTKC171DE01
## MAIN UNIT(Continued)

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| R2808 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2809 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2817 | VRS-CY1JF472JY | J | 4.7k | 1/16W | Metal Oxide | AA |
| R2818 | VRS-CY1JF472JY | J | 4.7k | 1/16W | Metal Oxide | AA |
| R2819 | VRN-CY1JF153DY | J | 15k | 1/16W | Metal Film | AA |
| R2821 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2822 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2825 | VRN-CY1JF153DY | J | 15k | 1/16W | Metal Film | AA |
| R2832 | VRS-CY1JF472JY | J | 4.7k | 1/16W | Metal Oxide | AA |
| R2847 | VRS-CY1JF392JY | J | 3.9k | 1/16W | Metal Oxide | AA |
| R2849 | VRS-TX2HF120JY | J | 12 | 1/2W | Metal Oxide | AB |
| R2850 | VRS-TX2HF120JY | J | 12 | 1/2W | Metal Oxide | AB |
| R2851 | VRS-TX2HF1R0JY | J | 1 | 1/2W | Metal Oxide | AB |
| R2853 | VRS-TX2HF5R6JY | J | 5.6 | 1/2W | Metal Oxide | AB |
| R2854 | VRS-TW2ED1R2JY | J | 1.2 | 1/4W | Metal Oxide | AB |
| R2855 | VRS-TW2ED1R2JY | J | 1.2 | 1/4W | Metal Oxide | AB |
| R2856 | VRS-TX2HF1R0JY | J | 1 | 1/2W | Metal Oxide | AB |
| R2857 | VRS-TX2HF5R6JY | J | 5.6 | 1/2W | Metal Oxide | AB |
| R2860 | VRS-TX2HF000JY | J | 00 | 1/2W | Metal Oxide | AB |
| R2862 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2864 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2865 | VRN-CY1JF274DY | J | 270k | 1/16W | Metal Film | AA |
| R2866 | VRN-CY1JF114DY | J | 110k | 1/16W | Metal Film | AA |
| R2869 | VRN-CY1JF183DY | J | 18k | 1/16W | Metal Film | AA |
| R2870 | VRN-CY1JF912DY | J | 9.1k | 1/16W | Metal Film | AA |
| R2873 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2875 | VRN-CY1JF222DY | J | 2.2k | 1/16W | Metal Film | AB |
| R2876 | VRN-CY1JF120DY | J | 12 | 1/16W | Metal Film | AA |
| R2877 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2878 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2879 | VRS-TW2ED2R2JY | J | 2.2 | 1/4W | Metal Oxide | AA |
| R2881 | VRS-TV1JD222JY | J | 2.2k | 1/16W | Metal Oxide | AA |
| R2882 | VRS-TV1JD3R9JY | J | 3.9 | 1/16W | Metal Oxide | AA |
| R2883 | VRS-TW2ED2R2JY | J | 2.2 | 1/4W | Metal Oxide | AA |
| R2886 | VRS-CY1JF472JY | J | 4.7k | 1/16W | Metal Oxide | AA |
| R2887 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2891 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2893 | VRS-TV1JD272JY | J | 2.7k | 1/16W | Metal Oxide | AA |
| R2894 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2896 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2898 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R2904 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R2912 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2913 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R2915 | VRS-TX2HF821JY | J | 820 | 1/2W | Metal Oxide | AB |
| R2916 | VRS-TX2HF821JY | J | 820 | 1/2W | Metal Oxide | AB |
| R2917 | VRS-CY1JF181JY | J | 180 | 1/16W | Metal Oxide | AA |
| R2918 | VRS-CY1JF181JY | J | 180 | 1/16W | Metal Oxide | AA |
| R2919 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R2920 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R2924 | VRS-TX2HF2R2JY | J | 2.2 | 1/2W | Metal Oxide | AB |
| R2926 | VRN-CY1JF202DY | J | 2k | 1/16W | Metal Film | AA |
| R2927 | VRN-CY1JF222DY | J | 2.2k | 1/16W | Metal Film | AB |
| R2928 | VRN-CY1JF750DY | J | 75 | 1/16W | Metal Film | AA |
| R2929 | VRS-TX2HF1R0JY | J | 1 | 1/2W | Metal Oxide | AB |
| R2930 | VRN-CY1JF682DY | J | 6.8k | 1/16W | Metal Film | AB |
| R2931 | VRN-CY1JF201DY | J | 200 | 1/16W | Metal Film | AA |
| R2932 | VRN-CY1JF102DY | J | 1k | 1/16W | Metal Film | AA |
| R2933 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2935 | VRS-CY1JF123JY | J | 12k | 1/16W | Metal Oxide | AA |
| R2936 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3502 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R3503 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R3504 | VRS-CY1JF152JY | J | 1.5k | 1/16W | Metal Oxide | AA |
| R3505 | VRS-CY1JF431JY | J | 430 | 1/16W | Metal Oxide | AA |
| R3506 | VRS-CY1JF911FY | J | 910 | 1/16W | Metal Oxide | AA |
| R3507 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R3508 | VRS-CY1JF332JY | J | 3.3k | 1/16W | Metal Oxide | AA |
| R3509 | VRS-CY1JF561FY | J | 560 | 1/16W | Metal Oxide | AA |
| R3510 | VRS-CY1JF182JY | J | 1.8k | 1/16W | Metal Oxide | AA |
| R3511 | VRS-CY1JF202JY | J | 2k | 1/16W | Metal Oxide | AA |
| R3512 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3513 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3514 | VRS-CY1JF821JY | J | 820 | 1/16W | Metal Oxide | AA |
| R3515 | VRS-CY1JF911JY | J | 910 | 1/16W | Metal Oxide | AB |
| R3517 | VRS-CY1JF272JY | J | 2.7k | 1/16W | Metal Oxide | AA |
| R3518 | VRS-CY1JF202JY | J | 2k | 1/16W | Metal Oxide | AA |
| R3519 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3520 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3521 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3522 | VRS-CY1JF391JY | J | 390 | 1/16W | Metal Oxide | AA |
| R3523 | VRS-CY1JF181JY | J | 180 | 1/16W | Metal Oxide | AA |
| R3524 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3525 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3526 | VRS-CY1JF100JY | J | 10 | 1/16W | Metal Oxide | AA |
| R3527 | VRS-CY1JF100JY | J | 10 | 1/16W | Metal Oxide | AA |
| R3528 | VRS-TX2HF2R2JY | J | 2.2 | 1/2W | Metal Oxide | AB |
| R3529 | VRS-TV1JD2R2JY | J | 2.2 | 1/16W | Metal Oxide | AA |
| R3530 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R3531 | VRS-CY1JF221JY | J | 220 | 1/16W | Metal Oxide | AA |
| R3532 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R3533 | VRS-CY1JF473JY | J | 47k | 1/16W | Metal Oxide | AA |
| R3534 | VRS-CY1JF224JY | J | 220k | 1/16W | Metal Oxide | AA |
| R3535 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3536 | VRS-CY1JF222JY | J | 2.2k | 1/16W | Metal Oxide | AA |
| R3537 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R3538 | VRS-CY1JF472JY | J | 4.7k | 1/16W | Metal Oxide | AA |
| R3539 | VRS-CY1JF182JY | J | 1.8k | 1/16W | Metal Oxide | AA |
| R3540 | VRS-CY1JF182JY | J | 1.8k | 1/16W | Metal Oxide | AA |
| R3541 | VRS-CJ1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R3543 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3546 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R3547 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R3548 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R3549 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R3561 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R3563 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R3564 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R3570 | VRS-TW2ED391JY | J | 390 | 1/4W | Metal Oxide | AA |
| R3572 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R3573 | VRS-CY1JF104JY | J | 100k | 1/16W | Metal Oxide | AA |
| R3575 | VRS-TW2ED391JY | J | 390 | 1/4W | Metal Oxide | AA |
| R3577 | VRS-TW2ED391JY | J | 390 | 1/4W | Metal Oxide | AA |
| R3580 | VRS-TX2HF1R0JY | J | 1 | 1/2W | Metal Oxide | AB |
| R3581 | VRS-TX2HF1R0JY | J | 1 | 1/2W | Metal Oxide | AB |
| R3582 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R3586 | VRS-CY1JF510FY | J | 51 | 1/16W | Metal Oxide | AA |
| R3587 | VRS-CY1JF750JY | J | 75 | 1/16W | Metal Oxide | AA |
| R3588 | VRS-CY1JF510FY | J | 51 | 1/16W | Metal Oxide | AA |
| R3589 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R3590 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3591 | VRS-CY1JF391JY | J | 390 | 1/16W | Metal Oxide | AA |
| R3592 | VRS-CY1JF392JY | J | 3.9k | 1/16W | Metal Oxide | AA |
| R3593 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R3594 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R3595 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R3596 | VRS-CY1JF391JY | J | 390 | 1/16W | Metal Oxide | AA |
| R3597 | VRS-CY1JF392JY | J | 3.9k | 1/16W | Metal Oxide | AA |

### CONTROL

| | | | | |
|---|---|---|---|---|
| SW2002 | QSW-K0065GEZZY | J | Key Switch | AD |

### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| FB2003 | RBLN-0059CEZZY | J | Ferrite Bead | AB |
| FB2004 | RBLN-0059CEZZY | J | Ferrite Bead | AB |
| FB2005 | RBLN-0059CEZZY | J | Ferrite Bead | AB |
| FB2501 | RBLN-0060TAZZY | J | Ferrite Bead | AB |
| FB2502 | RBLN-0060TAZZY | J | Ferrite Bead | AB |
| FB2503 | RBLN-0060TAZZY | J | Ferrite Bead | AB |
| FB2504 | RBLN-0060TAZZY | J | Ferrite Bead | AB |
| FB2516 | RBLN-0061TAZZY | J | Ferrite Bead | AD |
| FB2517 | RBLN-0061TAZZY | J | Ferrite Bead | AD |
| FB2801 | RBLN-0059CEZZY | J | Ferrite Bead | AB |
| FB2802 | RBLN-0064TAZZY | J | Ferrite Bead | AB |
| FB2803 | RBLN-0064TAZZY | J | Ferrite Bead | AB |
| FB2804 | RBLN-0064TAZZY | J | Ferrite Bead | AB |
| FB2805 | RBLN-0064TAZZY | J | Ferrite Bead | AB |
| FB2809 | RBLN-0058TAZZY | J | Ferrite Bead | AC |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

## DUNTKC171DE01
### MAIN UNIT(Continued)

| | | | | |
|---|---|---|---|---|
| FB2811 | RBLN-0058TAZZY | J | Ferrite Bead | AC |
| FB2812 | RBLN-0058TAZZY | J | Ferrite Bead | AC |
| FB2813 | RBLN-0059CEZZY | J | Ferrite Bead | AB |
| FB2814 | RBLN-0064TAZZY | J | Ferrite Bead | AB |
| FB2815 | RBLN-0064TAZZY | J | Ferrite Bead | AB |
| FB2816 | RBLN-0064TAZZY | J | Ferrite Bead | AB |
| FB2817 | RBLN-0064TAZZY | J | Ferrite Bead | AB |
| FB2818 | RBLN-0064TAZZY | J | Ferrite Bead | AB |
| FB2819 | RBLN-0064TAZZY | J | Ferrite Bead | AB |
| FB2820 | RBLN-0064TAZZY | J | Ferrite Bead | AB |
| FB2821 | RBLN-0064TAZZY | J | Ferrite Bead | AB |
| FB2822 | RBLN-0062CEZZY | J | Ferrite Bead | AC |
| FB2823 | RBLN-0058TAZZY | J | Ferrite Bead | AC |
| FB2824 | RBLN-0060TAZZY | J | Ferrite Bead | AB |
| FB2825 | RBLN-0060TAZZY | J | Ferrite Bead | AB |
| FB2828 | RBLN-0062CEZZY | J | Ferrite Bead | AC |
| FB2829 | RBLN-0058TAZZY | J | Ferrite Bead | AC |
| FB2830 | RBLN-0058TAZZY | J | Ferrite Bead | AC |
| FB2831 | RBLN-0058TAZZY | J | Ferrite Bead | AC |
| FB2833 | RBLN-0058TAZZY | J | Ferrite Bead | AC |
| FB2834 | RBLN-0059CEZZY | J | Ferrite Bead | AB |
| FB2835 | RBLN-0058TAZZY | J | Ferrite Bead | AC |
| FB2836 | RBLN-0058TAZZY | J | Ferrite Bead | AC |
| FB2837 | RBLN-0058TAZZY | J | Ferrite Bead | AC |
| FB2841 | RBLN-0058TAZZY | J | Ferrite Bead | AC |
| FB2843 | RBLN-0090CEZZY | J | Ferrite Bead | AD |
| FB2844 | RBLN-0090CEZZY | J | Ferrite Bead | AD |
| FB2845 | RBLN-0084CEZZY | J | Ferrite Bead | AC |
| FB2846 | RBLN-0084CEZZY | J | Ferrite Bead | AC |
| FB2847 | RBLN-0090CEZZY | J | Ferrite Bead | AD |
| FB2848 | RBLN-0090CEZZY | J | Ferrite Bead | AD |
| FB2849 | RBLN-0090CEZZY | J | Ferrite Bead | AD |
| FB2850 | RBLN-0090CEZZY | J | Ferrite Bead | AD |
| FB3501 | RBLN-0059CEZZY | J | Ferrite Bead | AB |
| FB3502 | RBLN-0059CEZZY | J | Ferrite Bead | AB |
| FB3507 | RBLN-0064TAZZY | J | Ferrite Bead | AB |
| J2501 | QJAKLA001WJZZ | J | Jack, Component 1 | AN |
| J2503 | QJAKHA002WJZZ | J | Jack, Component 2 | AM |
| J2505 | QJAKZ1053CEZZ | J | Jack, S Video | AG |
| J2801 | QJAKA0022CEZZ | J | Jack, Wired R/C | AC |
| J2802 | QJAKE0071CEZZ | J | DC 12V Out | AD |
| P2001 | QPLGN1358REZZY | J | Plug, 13pin(KEY) | AD |
| P2801 | QPLGN0540FJZZY | J | Plug, 2pin | AD |
| P2802 | QPLGN0539FJZZY | J | Plug, 3pin(TB) | AD |
| P2804 | QPLGN0176FJZZY | J | Plug, 4pin(FA) | AD |
| P2805 | QPLGN0541FJZZY | J | Plug, 4pin(FB) | AD |
| P2806 | QPLGN0540FJZZY | J | Plug, 3pin(FC) | AD |
| P2807 | QPLGN0565FJZZY | J | Plug, 3pin(FD) | AD |
| P2809 | QPLGN0464TAZZY | J | Plug, 4pin(CA) | AC |
| P2810 | QPLGN0565FJZZY | J | Plug, 3pin(RC) | AD |
| P2811 | QPLGN0550FJZZY | J | Plug, 13pin(EA) | AF |
| P2812 | QPLGN0547FJZZY | J | Plug, 10pin(EB) | AE |
| P2813 | QPLGN0547FJZZY | J | Plug, 10pin(J2) | AE |
| P3580 | QCNCM6013CEZZY | J | Plug, 31pin | AL |
| P3581 | QCNCM6013CEZZY | J | Plug, 31pin | AL |
| P3582 | QCNCM6013CEZZY | J | Plug, 31pin | AL |
| SC2801 | QSOCN0437FJZZ | J | Connector, RS-232C | AM |

## DUNTKC172DE01
### KEY UNIT

#### CAPACITOR

| | | | | | | |
|---|---|---|---|---|---|---|
| C2202 | VCKYCY1CB104KY | J | 0.1 | 16V | Ceramic | AB |

#### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R2201 | VRS-CY1JF562JY | J | 5.6k | 1/16W | Metal Oxide | AA |
| R2202 | VRS-CY1JF562JY | J | 5.6k | 1/16W | Metal Oxide | AA |
| R2203 | VRS-CY1JF562JY | J | 5.6k | 1/16W | Metal Oxide | AA |
| R2204 | VRS-CY1JF682JY | J | 6.8k | 1/16W | Metal Oxide | AA |
| R2205 | VRS-CY1JF682JY | J | 6.8k | 1/16W | Metal Oxide | AA |
| R2206 | VRS-CY1JF682JY | J | 6.8k | 1/16W | Metal Oxide | AA |
| R2207 | VRS-CY1JF223JY | J | 22k | 1/16W | Metal Oxide | AA |
| R2210 | VRS-CH1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2211 | VRS-CH1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |

#### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| SW2201 | QSW-K0065GEZZY | J | Switch, Power | AD |
| SW2202 | QSW-K0065GEZZY | J | Switch, Cursor ▲ | AD |
| SW2203 | QSW-K0065GEZZY | J | Switch, Cursor ▼ | AD |
| SW2204 | QSW-K0065GEZZY | J | Switch, Input 1,2,3 | AD |
| SW2205 | QSW-K0065GEZZY | J | Switch, Menu | AD |
| SW2206 | QSW-K0065GEZZY | J | Switch, Cursor ▶ | AD |
| SW2207 | QSW-K0065GEZZY | J | Switch, Cursor ◀ | AD |
| SW2208 | QSW-K0065GEZZY | J | Switch, Enter | AD |
| SW2209 | QSW-K0065GEZZY | J | Switch, Undo | AD |
| SW2210 | QSW-K0065GEZZY | J | Switch, Power Off | AD |
| SW2211 | QSW-K0065GEZZY | J | Switch, Resize | AD |
| CN2202 | QPLGN1358REZZY | J | Plug, 13pin(KY) | AD |
| P2814 | QPLGN0364TAZZY | J | Plug, 3pin(RA) | AC |
| P2815 | QPLGN0763TAZZY | J | Plug, 7pin | AD |

## DUNTKC173DE01
### R/C FRONT UNIT

#### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| C2401 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2403 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |

#### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R2401 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R2402 | VRS-CY1JF220JY | J | 22 | 1/16W | Metal Oxide | AA |

#### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| P2401 | QPLGN0364TAZZY | J | Plug, 3pin(RC) | AC |
| RMC2401 | RRMCU0239CEZZ | J | R/C Receiver | AG |

## DUNTKC174DE01
### R/C REAR UNIT

#### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| C2404 | VCKYCY1EF104ZY | J | 0.1 | 25V | Ceramic | AA |
| C2406 | VCEAPF0JW107MY | J | 100 | 6.3V | Electrolytic | AC |

#### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R2403 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R2404 | VRS-CY1JF220JY | J | 22 | 1/16W | Metal Oxide | AA |

#### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| P2402 | QPLGN0364TAZZY | J | Plug, 3pin(RA) | AC |
| RMC2402 | RRMCU0237CEZZ | J | R/C Receiver | AF |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

# DUNTKC175DE01
## LED UNIT

### DIODES

| | | | | |
|---|---|---|---|---|
| D2202 | RH-PX0445CEZZY | J | LED RED & BLUE | AM |
| D2203 | RH-PX0445CEZZY | J | LED RED & BLUE | AM |
| D2204 | RH-PX0196TAZZ | J | LED RED | AC |

### CAPACITOR

| | | | | | | |
|---|---|---|---|---|---|---|
| C2204 | VCKYCY1CB104K | J | 0.1 | 16V | Ceramic | AB |

### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R2213 | VRS-TV1JD182J | J | 1.8k | 1/10W | Metal Oxide | AA |
| R2214 | VRS-TV1JD472J | J | 4.7k | 1/10W | Metal Oxide | AA |
| R2215 | VRS-TV1JD102J | J | 1.0k | 1/10W | Metal Oxide | AA |
| R2216 | VRS-TV1JD102J | J | 1.0k | 1/10W | Metal Oxide | AA |
| R2217 | VRS-TV1JD472J | J | 4.7k | 1/10W | Metal Oxide | AA |

### MISCELLANEOUS PART

| | | | | |
|---|---|---|---|---|
| P2450 | QPLGN0758REZZY | J | Plug, 7pin(RE) | AC |

# DUNTKC176DE01
## IRIS UNIT

### INTEGRATED CIRCUITS

| | | | | |
|---|---|---|---|---|
| IC2101 | VHiPQ1M505M-1Y | J | Integrated Circuits | AD |
| IC2104 | VHiM62320FP-1Y | J | M62320FP | AH |
| IC2105 | VHiLB1831M/-1Y | J | LB1831M | AL |

### DIODE

| | | | | |
|---|---|---|---|---|
| D2101 | VHDHSU119//-1Y | J | HSU119 | AB |

### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| C2101 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C2102 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C2103 | VCEAPF1CW107MY | J | 100 | 16V | Electrolytic | AC |
| C2109 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |

### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R2101 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R2103 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2104 | VRS-CY1JF101JY | J | 100 | 1/16W | Metal Oxide | AA |
| R2106 | VRS-CY1JF100JY | J | 10 | 1/16W | Metal Oxide | AA |
| R2108 | VRS-CY1JF100JY | J | 10 | 1/16W | Metal Oxide | AA |
| R2110 | VRS-CY1JF100JY | J | 10 | 1/16W | Metal Oxide | AA |

### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| P2101 | QPLGN0558REZZY | J | Plug, 5pin | AE |
| P2103 | QPLGN0358REZZY | J | Plug, 3pin | AD |
| P2104 | QPLGN0258REZZY | J | Plug, 2pin | AD |

# DUNTKB474FE03
## FORMATTER UNIT

### INTEGRATED CIRCUITS

| | | | | |
|---|---|---|---|---|
| IC9001 | VHiVCX16374-1Y | J | TC74VCX16374FT | AL |
| IC9002 | VHiVCX16374-1Y | J | TC74VCX16374FT | AL |
| IC9003 | VHi7SA34FU+-1Y | J | TC7SA34FU | AD |
| IC9004 | VHiPQ05VY3H-1Y | J | PQ05VY3H3ZP | AK |
| IC9005 | VHiTA75S393-1Y | J | TA75S393F | AD |
| IC9101 | VHiDDP1010+-1Q | J | 2503227-001 | BX |
| IC9102 | RH-iXA826WJZZQ | J | IC | AQ |
| IC9201 | VHiPQ018EZ5-1Y | J | PQ018EZ5MZP | AF |
| IC9202 | VHiTCDCR83D-1Y | J | CDCR83DBQR | AR |
| IC9203 | VHiK4R271T8-1Q | J | K4R271669D-TCS | BC |
| IC9301 | RH-iXA384WJZZQ | J | 2503253-0002 | BP |
| IC9401 | VHiSH6742C+-1Q | J | SH6742CFA0PAG | BD |
| IC9402 | VHiLVC1G07C-1Y | J | SN74LVC1G07 | AE |
| IC9403 | VHiPQ1L503M-1Y | J | PQ1L503M2SP | AD |

### TRANSISTORS

| | | | | |
|---|---|---|---|---|
| Q9401 | VSTPC8209++-1Y | J | TPC8209 | AE |
| Q9402 | VSTPC8209++-1Y | J | TPC8209 | AE |
| Q9403 | VSTPC8209++-1Y | J | TPC8209 | AE |

### DIODES

| | | | | |
|---|---|---|---|---|
| D9001 | VHDMi1A3///2EY | J | MI1A3 | AC |
| D9002 | RH-EX1243CEZZY | J | Zener Diode | AB |
| D9003 | RH-EX1232CEZZY | J | Zener Diode | AB |
| D9201 | VHDMI1A3///2EY | J | MI1A3 | AC |
| D9301 | VHDSFPB56//2EY | J | SFPB56 | AC |
| D9401 | VHDBAV99RW+-1Y | J | BAV99RW | AC |
| D9402 | VHDSFPA73//2EY | J | SFPA73 | AD |
| D9404 | VHDBAT54SWT-1Y | J | BAT54SWT | AC |
| D9405 | VHDBAT54SWT-1Y | J | BAT54SWT | AC |
| D9406 | VHDBAT54SWT-1Y | J | BAT54SWT | AC |
| D9407 | VHDBAT54SWT-1Y | J | BAT54SWT | AC |
| D9408 | VHDBAT54SWT-1Y | J | BAT54SWT | AC |
| D9409 | VHDHSU119//-1Y | J | HSU119 | AB |

### PACKAGED CIRCUIT

| | | | | |
|---|---|---|---|---|
| X9101 | RCRUAA041WJZZY | J | Crystal | AN |

### COILS AND FILTERS

| | | | | |
|---|---|---|---|---|
| FL9001 | RFILN0533CEZZY | J | Filter | AC |
| FL9002 | RFILN0533CEZZY | J | Filter | AC |
| FL9003 | RFILN0533CEZZY | J | Filter | AC |
| L9301 | VPCLN220MR77NY | J | Peaking 22μH | AB |
| L9302 | VPCLN220MR77NY | J | Peaking 22μH | AB |
| L9303 | VPCLN220MR77NY | J | Peaking 22μH | AB |
| L9304 | VPCLN220MR77NY | J | Peaking 22μH | AB |

### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| C9001 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9002 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9003 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9004 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9005 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9006 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9007 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9008 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9009 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9010 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9011 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9012 | VCKYCY1AB105KY | J | 1 | 10V | Ceramic | AB |
| C9013 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9020 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9021 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9022 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9023 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9024 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9025 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9026 | VCEASH1CN107MY | J | 100 | 16V | Electrolytic | AC |
| C9027 | VCEASH1CN107MY | J | 100 | 16V | Electrolytic | AC |
| C9101 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |

# DUNTKB474FE03
## FORMATTER UNIT(Continued)

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| C9102 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9103 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9104 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9105 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9106 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9107 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9109 | VCCCCY1HH680JY | J | 68p | 50V | Ceramic | AA |
| C9110 | VCAAPC0JJ336MY | J | 33 | 6.3V | Electrolytic | AF |
| C9111 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9112 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9113 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9114 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9117 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9118 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9119 | VCEASH0JN476MY | J | 47 | 6.3V | Electrolytic | AC |
| C9120 | VCEASH0JN476MY | J | 47 | 6.3V | Electrolytic | AC |
| C9121 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9124 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9126 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9129 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9130 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9133 | VCCCCY1HH270JY | J | 27p | 50V | Ceramic | AA |
| C9134 | VCCCCY1HH270JY | J | 27p | 50V | Ceramic | AA |
| C9137 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9140 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9141 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9144 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9148 | VCEASH0JN476MY | J | 47 | 6.3V | Electrolytic | AC |
| C9149 | VCEASH0JN476MY | J | 47 | 6.3V | Electrolytic | AC |
| C9150 | VCAAPE0GJ157MY | J | 150 | 4.0V | Electrolytic | AE |
| C9152 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9153 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9156 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9157 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9161 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9162 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9165 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9167 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9170 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9173 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9174 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9181 | VCCCCY1HH270JY | J | 27p | 50V | Ceramic | AA |
| C9182 | VCCCCY1HH270JY | J | 27p | 50V | Ceramic | AA |
| C9201 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9202 | VCEASH0JN476MY | J | 47 | 6.3V | Electrolytic | AC |
| C9203 | VCEASH0JN476MY | J | 47 | 6.3V | Electrolytic | AC |
| C9204 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9205 | VCCCCY1HH680JY | J | 68p | 50V | Ceramic | AA |
| C9206 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9207 | VCCCCY1HH680JY | J | 68p | 50V | Ceramic | AA |
| C9208 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9209 | VCCCCY1HH680JY | J | 68p | 50V | Ceramic | AA |
| C9210 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9211 | VCCCCY1HH680JY | J | 68p | 50V | Ceramic | AA |
| C9212 | VCAAPE0GJ157MY | J | 150 | 4V | Electrolytic | AE |
| C9213 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9214 | VCEASH0JN227MY | J | 220 | 6.3V | Electrolytic | AC |
| C9215 | VCAAPE0GJ157MY | J | 150 | 4V | Electrolytic | AE |
| C9216 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9217 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9218 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9219 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9220 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9221 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9222 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9223 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9224 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9225 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9226 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9227 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9228 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9229 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9230 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9231 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9232 | VCCCCY1HH5R0CY | J | 5.0p | 50V | Ceramic | AA |
| C9233 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9234 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9235 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9236 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9237 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9238 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9239 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9240 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9301 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9302 | VCKYCY1HB104KY | J | 0.1 | 50V | Ceramic | AA |
| C9303 | VCKYCY1HB104KY | J | 0.1 | 50V | Ceramic | AA |
| C9304 | VCEASH1VN106MY | J | 10 | 35V | Electrolytic | AC |
| C9305 | VCKYCY1HB104KY | J | 0.1 | 50V | Ceramic | AA |
| C9306 | VCKYCY1HB104KY | J | 0.1 | 50V | Ceramic | AA |
| C9307 | VCEASH1VN106MY | J | 10 | 35V | Electrolytic | AC |
| C9308 | VCEASH1CN107MY | J | 100 | 16V | Electrolytic | AC |
| C9309 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9310 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9311 | VCEASH1EN106MY | J | 10 | 25V | Electrolytic | AC |
| C9312 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9313 | RC-KZ0072TAZZY | J | 1 | 25V | Ceramic | AC |
| C9314 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9315 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9316 | RC-KZ0070TAZZY | J | 4.7 | 16V | Ceramic | AD |
| C9401 | VCKYCY1AB105KY | J | 1 | 10V | Ceramic | AB |
| C9402 | VCEASH1CN107MY | J | 100 | 16V | Electrolytic | AC |
| C9403 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9404 | RC-KZ0072TAZZY | J | 1 | 25V | Ceramic | AC |
| C9405 | RC-KZ0072TAZZY | J | 1 | 25V | Ceramic | AC |
| C9406 | VCEASH1CN107MY | J | 100 | 16V | Electrolytic | AC |
| C9407 | VCKYCY1HB272KY | J | 2700p | 50V | Ceramic | AA |
| C9408 | VCKYCY1HB271KY | J | 270p | 50V | Ceramic | AA |
| C9409 | VCCCCY1HH121JY | J | 120p | 50V | Ceramic | AA |
| C9410 | VCCCCY1HH101JY | J | 100p | 50V | Ceramic | AA |
| C9411 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C9412 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C9413 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9414 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9415 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9416 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9417 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9418 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9419 | VCKYCY1HB471KY | J | 470p | 50V | Ceramic | AA |
| C9420 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9421 | RC-KZ0071TAZZY | J | 2.2 | 6.3V | Ceramic | AD |
| C9422 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9423 | VCEASH1CN107MY | J | 100 | 16V | Electrolytic | AC |
| C9424 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9425 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9426 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9427 | VCKYCY1AB105KY | J | 1 | 10V | Ceramic | AB |
| C9428 | VCEASH1CN107MY | J | 100 | 16V | Electrolytic | AC |
| C9429 | VCKYCY1HB103KY | J | 0.01 | 50V | Ceramic | AA |
| C9430 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C9501 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C9502 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9503 | VCKYCY1HB102KY | J | 1000p | 50V | Ceramic | AA |
| C9504 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9505 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9506 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9507 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9508 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9517 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9519 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9520 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9523 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9529 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9536 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9537 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9538 | RC-KZ0071TAZZY | J | 2.2 | 6.3V | Ceramic | AD |
| C9539 | RC-KZ0071TAZZY | J | 2.2 | 6.3V | Ceramic | AD |
| C9540 | RC-KZ0071TAZZY | J | 2.2 | 6.3V | Ceramic | AD |
| C9541 | RC-KZ0071TAZZY | J | 2.2 | 6.3V | Ceramic | AD |

# DUNTKB474FE03
## FORMATTER UNIT(Continued)

| Ref. No. | Part No. | ★ | | | Description | Code |
|---|---|---|---|---|---|---|
| C9542 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9543 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9544 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9545 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9546 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9547 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9548 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9549 | VCKYCY1EB104KY | J | 0.1 | 25V | Ceramic | AB |
| C9550 | VCKYCY1AB105KY | J | 1 | 10V | Ceramic | AB |
| C9551 | VCKYCY1AB105KY | J | 1 | 10V | Ceramic | AB |

### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R9002 | VRS-CY1JF132JY | J | 1.3k | 1/16W | Metal Oxide | AG |
| R9003 | VRS-CY1JF132JY | J | 1.3k | 1/16W | Metal Oxide | AG |
| R9004 | VRS-CY1JF132JY | J | 1.3k | 1/16W | Metal Oxide | AG |
| R9005 | VRS-CY1JF132JY | J | 1.3k | 1/16W | Metal Oxide | AG |
| R9016 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R9041 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9045 | VRS-CF1JP330JY | J | 33 | 1/16W | Metal Oxide | AC |
| R9046 | VRS-CF1JP330JY | J | 33 | 1/16W | Metal Oxide | AC |
| R9047 | VRS-CF1JP330JY | J | 33 | 1/16W | Metal Oxide | AC |
| R9048 | VRS-CF1JP330JY | J | 33 | 1/16W | Metal Oxide | AC |
| R9050 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R9054 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9055 | VRN-CY1JF202DY | J | 2k | 1/16W | Metal Film | AA |
| R9056 | VRN-CY1JF470DY | J | 47 | 1/16W | Metal Film | AA |
| R9057 | VRN-CY1JF202DY | J | 2k | 1/16W | Metal Film | AA |
| R9059 | VRS-CY1JF330FY | J | 33 | 1/16W | Metal Oxide | AA |
| R9060 | VRS-CY1JF330FY | J | 33 | 1/16W | Metal Oxide | AA |
| R9061 | VRS-CY1JF132JY | J | 1.3k | 1/16W | Metal Oxide | AG |
| R9062 | VRS-CY1JF472JY | J | 4.7k | 1/16W | Metal Oxide | AA |
| R9063 | VRS-CY1JF472JY | J | 4.7k | 1/16W | Metal Oxide | AA |
| R9064 | VRN-CY1JF822DY | J | 8.2k | 1/16W | Metal Film | AA |
| R9065 | VRN-CY1JF103DY | J | 10k | 1/16W | Metal Film | AA |
| R9066 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R9067 | VRS-CY1JF471JY | J | 470 | 1/16W | Metal Oxide | AA |
| R9101 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9102 | VRS-CF1JP102JY | J | 1k | 1/16W | Metal Oxide | AC |
| R9103 | VRS-CF1JP102JY | J | 1k | 1/16W | Metal Oxide | AC |
| R9104 | VRS-CY1JF220FY | J | 22 | 1/16W | Metal Oxide | AA |
| R9105 | VRS-CY1JF220FY | J | 22 | 1/16W | Metal Oxide | AA |
| R9106 | VRS-CY1JF220FY | J | 22 | 1/16W | Metal Oxide | AA |
| R9107 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9108 | VRS-CY1JF220FY | J | 22 | 1/16W | Metal Oxide | AA |
| R9110 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9112 | VRS-CY1JF390FY | J | 39 | 1/16W | Metal Oxide | AA |
| R9113 | VRS-CF1JP102JY | J | 1k | 1/16W | Metal Oxide | AC |
| R9114 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R9115 | VRS-CF1JP102JY | J | 1k | 1/16W | Metal Oxide | AC |
| R9116 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R9117 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R9118 | VRS-CF1JP102JY | J | 1k | 1/16W | Metal Oxide | AC |
| R9119 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9120 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9121 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R9122 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R9123 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R9124 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9128 | VRS-CY1JF132JY | J | 1.3k | 1/16W | Metal Oxide | AG |
| R9129 | VRS-CY1JF330FY | J | 33 | 1/16W | Metal Oxide | AA |
| R9132 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9133 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9135 | VRS-CY1JF330FY | J | 33 | 1/16W | Metal Oxide | AA |
| R9138 | VRS-CY1JF132JY | J | 1.3k | 1/16W | Metal Oxide | AG |
| R9139 | VRS-CY1JF330FY | J | 33 | 1/16W | Metal Oxide | AA |
| R9140 | VRS-CY1JF330FY | J | 33 | 1/16W | Metal Oxide | AA |
| R9201 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9203 | VRS-CY1JF560FY | J | 56 | 1/16W | Metal Oxide | AA |
| R9204 | VRS-CY1JF111FY | J | 110 | 1/16W | Metal Oxide | AA |
| R9205 | VRS-CY1JF111FY | J | 110 | 1/16W | Metal Oxide | AA |
| R9206 | VRS-CY1JF560FY | J | 56 | 1/16W | Metal Oxide | AA |
| R9207 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R9208 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R9209 | VRS-CY1JF111FY | J | 110 | 1/16W | Metal Oxide | AA |
| R9210 | VRS-CY1JF330FY | J | 33 | 1/16W | Metal Oxide | AA |
| R9211 | VRS-CY1JF121FY | J | 120 | 1/16W | Metal Oxide | AA |
| R9212 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R9213 | VRS-CY1JF390FY | J | 39 | 1/16W | Metal Oxide | AA |
| R9214 | VRS-CY1JF390FY | J | 39 | 1/16W | Metal Oxide | AA |
| R9215 | VRS-CY1JF390FY | J | 39 | 1/16W | Metal Oxide | AA |
| R9216 | VRK-CD1JJ390FY | J | 39 | 1/16W Metal Composition | | AC |
| R9217 | VRK-CD1JJ390FY | J | 39 | 1/16W Metal Composition | | AC |
| R9218 | VRK-CD1JJ390FY | J | 39 | 1/16W Metal Composition | | AC |
| R9219 | VRS-CY1JF390FY | J | 39 | 1/16W | Metal Oxide | AA |
| R9301 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R9302 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R9304 | VRS-CF1JP100JY | J | 10 | 1/16W | Metal Oxide | AC |
| R9305 | VRS-CF1JP100JY | J | 10 | 1/16W | Metal Oxide | AC |
| R9306 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9307 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9308 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R9309 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R9401 | RR-SZ0090CEZZY | J | 2.74k | | Acid Metal | AA |
| R9402 | RR-SZ0089CEZZY | J | 2.26k | | Acid Metal | AA |
| R9403 | VRS-CY1JF154JY | J | 150k | 1/16W | Metal Oxide | AA |
| R9404 | VRS-CY1JF332JY | J | 3.3k | 1/16W | Metal Oxide | AA |
| R9405 | VRS-TV1JD301JY | J | 300 | 1/16W | Metal Oxide | AA |
| R9406 | VRS-CY1JF332JY | J | 3.3k | 1/16W | Metal Oxide | AA |
| R9407 | VRS-CY1JF332JY | J | 3.3k | 1/16W | Metal Oxide | AA |
| R9408 | VRS-CY1JF332JY | J | 3.3k | 1/16W | Metal Oxide | AA |
| R9409 | VRS-CY1JF332JY | J | 3.3k | 1/16W | Metal Oxide | AA |
| R9410 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R9411 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R9412 | VRS-CY1JF152JY | J | 1.5k | 1/16W | Metal Oxide | AA |
| R9413 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R9414 | VRS-CY1JF302JY | J | 3k | 1/16W | Metal Oxide | AA |
| R9415 | VRS-TQ2BD101JY | J | 100 | 1/8W | Metal Oxide | AA |
| R9416 | VRS-CY1JF106JY | J | 10M | 1/16W | Metal Oxide | AA |
| R9417 | VRS-CY1JF106JY | J | 10M | 1/16W | Metal Oxide | AA |
| R9418 | VRS-TQ2BD101JY | J | 100 | 1/8W | Metal Oxide | AA |
| R9419 | VRS-CY1JF106JY | J | 10M | 1/16W | Metal Oxide | AA |
| R9420 | VRS-TQ2BD101JY | J | 100 | 1/8W | Metal Oxide | AA |
| R9421 | VRS-TW2HPR39JY | J | 0.39 | 1/2W | Metal Oxide | AB |
| R9422 | VRS-TW2HPR39JY | J | 0.39 | 1/2W | Metal Oxide | AB |
| R9423 | VRS-TW2HPR39JY | J | 0.39 | 1/2W | Metal Oxide | AB |
| R9424 | VRS-CY1JF103JY | J | 10k | 1/16W | Metal Oxide | AA |
| R9501 | VRS-CY1JF330FY | J | 33 | 1/16W | Metal Oxide | AA |
| R9502 | VRS-CY1JF000JY | J | 00 | 1/16W | Metal Oxide | AA |
| R9907 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |
| R9912 | VRS-CY1JF102JY | J | 1k | 1/16W | Metal Oxide | AA |

### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| FB9002 | RBLN-0253TAZZY | J | Ferrite Bead | AA |
| FB9103 | RBLN-0253TAZZY | J | Ferrite Bead | AA |
| FB9104 | RBLN-0253TAZZY | J | Ferrite Bead | AA |
| FB9201 | RBLN-0253TAZZY | J | Ferrite Bead | AA |
| FB9301 | RBLN-0253TAZZY | J | Ferrite Bead | AA |
| FB9003 | RBLN-0209TAZZY | J | Ferrite Bead | AB |
| FB9101 | RBLN-0209TAZZY | J | Ferrite Bead | AB |
| FB9102 | RBLN-0209TAZZY | J | Ferrite Bead | AB |
| FB9401 | RBLN-A009WJZZY | J | Ferrite Bead | AB |
| FB9501 | RBLN-A009WJZZY | J | Ferrite Bead | AB |
| FB9502 | RBLN-A009WJZZY | J | Ferrite Bead | AB |
| FB9402 | RBLN-A007WJZZY | J | Ferrite Bead | AC |
| FB9403 | RBLN-A007WJZZY | J | Ferrite Bead | AC |
| FB9404 | RBLN-A007WJZZY | J | Ferrite Bead | AC |
| P9001 | QPLGN0588FJZZY | J | Plug, 30pin | AH |
| P9003 | QPLGN0182FJZZY | J | Plug, 10pin | AD |
| P9401 | QPLGN0463TAZZY | J | Plug, 4pin | AC |
| P9402 | QPLGNA038WJZZY | J | Plug, 4pin | AD |
| SC9002 | QSOCN0687FJZZY | J | Socket | AF |
| S9101 | QSW-S0203TAZZY | J | Slide Switch | AD |
| S9102 | QSW-S0203TAZZY | J | Slide Switch | AD |

# RDENCA055WJZZ
## POWER UNIT

### INTEGRATED CIRCUITS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| ⚠ IC7001 | 95CH1101AC001 | J | FA5332M | BD |
| IC7002 | 95C0H1Q3A0010 | J | TA76431 | AQ |
| IC7151 | 95C0H1Q3A0010 | J | TA76431 | AQ |
| ⚠ IC7201 | 95C0H132A0010 | J | AN8021L | AV |
| IC7301 | 95C0H1Q3A0010 | J | TA76431 | AQ |
| IC7351 | 95C0H146A0010 | J | PQ1CG21H2FZ | AW |
| IC7401 | 95C0H141A0010 | J | HA16114P | AY |

### TRANSISTORS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| Q7001 | 95C0T252A0010 | J | 2SB1237 | AM |
| Q7002 | 95C0T454A0010 | J | 2SD1858 | AM |
| Q7003 | 95C0T196A0010 | J | 2SA1812 | AS |
| Q7004 | 95C0T643A0010 | J | FET, 2SK2698 | AY |
| Q7005 | 95C0T643A0010 | J | FET, 2SK2698 | AY |
| Q7006 | 95C0T394A0010 | J | 2SC4081 | AH |
| Q7007 | 95C0T192A0010 | J | 2SA1576A | AH |
| Q7101 | 95C0T395A0020 | J | 2SC4097 | AL |
| Q7102 | 95C0T645A0020 | J | FET, 2SK2717 | AW |
| Q7103 | 95C0T193A0010 | J | 2SA1577 | AK |
| Q7104 | 95C0T394A0010 | J | 2SC4081 | AH |
| Q7105 | 95C0T192A0010 | J | 2SA1576A | AH |
| Q7106 | 95C0T394A0010 | J | 2SC4081 | AH |
| Q7107 | 95C0T394A0010 | J | 2SC4081 | AH |
| Q7151 | 95C0T397A0010 | J | 2SC4672K | AM |
| Q7201 | 95C0T640A0010 | J | FET, 2SK2651-01MR | AV |
| Q7202 | 95C0T192A0010 | J | 2SA1576A | AH |
| Q7401 | 95C0T502A0010 | J | FET, 2SJ303 | AT |
| Q7402 | 95C0T394A0010 | J | 2SC4081 | AH |
| Q7403 | 95C0T394A0010 | J | 2SC4081 | AH |

### DIODES

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| ⚠ D7001 | 95C0D118A0060 | J | D15XB60 | AX |
| ⚠ D7002 | 95C0D157A0060 | J | ERA15-06 | AE |
| ⚠ D7003 | 95C0D157A0060 | J | ERA15-06 | AE |
| ⚠ D7004 | 95C0D157A0060 | J | ERA15-06 | AE |
| ⚠ D7005 | 95C0D157A0060 | J | ERA15-06 | AE |
| ⚠ D7006 | 95C0D157A0060 | J | ERA15-06 | AE |
| ⚠ D7007 | 95C0D157A0060 | J | ERA15-06 | AE |
| D7010 | 95CD2172AL006 | J | SF10L60U | AR |
| D7012 | 95C0D491A0290 | J | Zener Diode, UDZ 30B | AM |
| D7013 | 95C0D491A0290 | J | Zener Diode, UDZ 30B | AM |
| D7014 | 95C0D491A0290 | J | Zener Diode, UDZ 30B | AM |
| D7015 | 95C0D264A0020 | J | ERB44-02 | AG |
| D7101 | 95C0D491A0080 | J | Zener Diode, UDZ 3.9B | AL |
| D7102 | 95C0D295A0080 | J | 1SS355 | AE |
| D7103 | 95C0D295A0080 | J | 1SS355 | AE |
| D7104 | 95C0D491A0190 | J | Zener Diode, UDZ 11B | AL |
| D7105 | 95C0D295A0080 | J | 1SS355 | AE |
| D7109 | 95C0D295A0080 | J | 1SS355 | AE |
| D7111 | 95C0D492A0070 | J | Zener Diode, UDZ S 9.1B | AK |
| D7112 | 95C0D492A0020 | J | Zener Diode, UDZS 5.6B | AK |
| D7113 | 95C0D295A0080 | J | 1SS355 | AE |
| D7114 | 95C0D491A0190 | J | Zener Diode, UDZ 11B | AL |
| D7115 | 95C0D292A0020 | J | SC902-2 | AM |
| D7151 | 95C0D271A0020 | J | ERA92-02 | AM |
| D7152 | 95C0D265A0020 | J | ERA91-02 | AL |
| D7201 | 95C0D265A0020 | J | ERA91-02 | AL |
| D7202 | 95C0D267A0100 | J | ERA22-10 | AM |
| D7203 | 95C0D491A0290 | J | Zener Diode, UDZ 30B | AM |
| D7204 | 95C0D491A0290 | J | Zener Diode, UDZ 30B | AM |
| D7206 | 95C0D264A0020 | J | ERB44-02 | AG |
| D7207 | 95C0D491A0050 | J | Zener Diode, UDZ 3.0B | AF |
| D7301 | 95C0D222B0020 | J | YG902C2R | AQ |
| D7302 | 95C0D491A0290 | J | Zener Diode, UDZ 16B | AM |
| D7303 | 95C0D295A0080 | J | 1SS355 | AE |
| D7351 | 95C0D295A0080 | J | 1SS355 | AE |
| D7352 | 95C0D219B0060 | J | YG811S06R | AM |
| D7401 | 95C0D227B0040 | J | YG805C04R | AT |
| D7402 | 95C0D227B0040 | J | YG805C04R | AT |
| D7404 | 95C0D492A0050 | J | Zener Diode, UDZ S7.5B | AK |
| D7405 | 95C0D295A0080 | J | 1SS355 | AE |

### PACKAGED CIRCUITS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| ⚠ PC7101 | 95CH7101AS002 | J | Optical Isolator, SFH615AGR-X016 | AN |
| ⚠ PC7201 | 95CH7101AS002 | J | Optical Isolator, SFH615AGR-X016 | AN |
| ⚠ PC7202 | 95CH7101AS002 | J | Optical Isolator, SFH615AGR-X016 | AN |
| ⚠ TRA7001 | 95C0D513A6120 | J | Triode AC Semiconductor Switch, SM12JZ47 | AT |
| ⚠ Z7001 | 95C0D754A4710 | J | Transient Voltage Surge Suppressor, ENC471 | AL |
| PTC7001 | 95C0D802A1010 | J | Posistir, PTH9M04BD222TS2F333 | AP |

### COILS AND TRANSFORMER

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| ⚠ L7001 | 95C0L107R8020 | J | Inductor, FK-080G-8020R | AX |
| ⚠ L7002 | 95C0L107R8020 | J | Inductor, FK-080G-8020R | AX |
| ⚠ L7005 | 95C0L110K2230 | J | Inductor, PLA10A2230R4D02B1 | AR |
| L7006 | 95C0L114R1010 | J | Inductor, SK-12M-5YRP | AT |
| L7007 | 95C0L106R1020 | J | Inductor, HK-14D100-1020 | BB |
| L7351 | 95C0L150S1000 | J | Inductor, 10μH | AN |
| L7352 | 95C0L124R1310 | J | Inductor, HK-08S060-1310 | AT |
| L7401 | 95C0L124R3000 | J | Inductor, HK-08S080-3000R | AR |
| ⚠ T7001 | 95CL2000BS023 | J | Transformer, 2BS23 | AX |
| ⚠ T7002 | 95CL2000US075 | J | Transformer, 2US75 | BA |

### CAPACITORS

| Ref. No. | Part No. | ★ | | | | Code |
|---|---|---|---|---|---|---|
| ⚠ C7001 | 95C0C245Q4740 | J | 0.47 | AC250V | Film | AS |
| ⚠ C7002 | 95C0C1H8Q4710 | J | 470p | AC250V | Ceramic | AG |
| ⚠ C7004 | 95C0C1H8Q4720 | J | 4700p | AC250V | Ceramic | AN |
| ⚠ C7005 | 95C0C1H8Q4710 | J | 470p | AC250V | Ceramic | AG |
| ⚠ C7006 | 95C0C245Q2240 | J | 0.22 | AC250V | Film | AL |
| C7008 | 95C0C1Q2B1040 | J | 0.1 | 16V | Ceramic | AH |
| C7009 | 95C0C247M4740 | J | 0.47 | 450V | Film | AV |
| C7010 | 95C0C377M1R00 | J | 1 | 400V | Eleectrolytic | AM |
| C7011 | 95C0C1Q1E4710 | J | 470p | 50V | Ceramic | AH |
| C7012 | 95C0C1Q1E1010 | J | 100p | 50V | Ceramic | AH |
| C7013 | 95C0C1Q2E1030 | J | 0.01 | 50V | Ceramic | AH |
| C7014 | 95C0C1Q1E3310 | J | 330p | 50V | Ceramic | AH |
| C7015 | 95C0C247M4740 | J | 0.47 | 450V | Film | AV |
| C7016 | 95C0C1Q2B1040 | J | 0.1 | 16V | Ceramic | AH |
| C7017 | 95C0C195C1040 | J | 0.1 | 25V | Ceramic | AD |
| C7020 | 95C0C1A9R2210 | J | 220p | 1kV | Ceramic | AF |
| C7022 | 95CC3124ML181 | J | 180 | 400V | Eleectrolytic | AC |
| C7023 | 95C0C364E4R70 | J | 4.7 | 50V | Eleectrolytic | AL |
| C7024 | 95C0C374D8200 | J | 82 | 35V | Eleectrolytic | AL |
| ⚠ C7026 | 95C0C245Q2240 | J | 0.22 | AC250V | Film | AL |
| C7027 | 95C0C195C1040 | J | 0.1 | 25V | Ceramic | AD |
| C7028 | 95C0C1Q2B1040 | J | 0.1 | 16V | Ceramic | AH |
| ⚠ C7101 | 95C0C1H8Q4710 | J | 470p | AC250V | Ceramic | AG |
| C7102 | 95C0C366MR3R3 | J | 3.3 | 400V | Eleectrolytic | AP |
| C7104 | 95C0C1Q2E4720 | J | 4700p | 50V | Ceramic | AH |
| C7105 | 95C0C194E1020 | J | 1000p | 50V | Ceramic | AK |
| C7106 | 95C0C1Q1E1010 | J | 100p | 50V | Ceramic | AH |
| C7108 | 95C0C195E1040 | J | 0.1 | 50V | Ceramic | AF |
| C7109 | 95C0C1Q2E1030 | J | 0.01 | 50V | Ceramic | AH |
| C7110 | 95C0C1Q2E1030 | J | 0.01 | 50V | Ceramic | AH |
| C7111 | 95C0C1Q2E1030 | J | 0.01 | 50V | Ceramic | AH |
| C7112 | 95C0C195E1040 | J | 0.1 | 50V | Ceramic | AF |
| C7151 | 95C0C375B4710 | J | 470 | 16V | Eleectrolytic | AN |
| C7152 | 95C0C195E1040 | J | 0.1 | 50V | Ceramic | AF |
| C7201 | 95CC3124ML181 | J | 180 | 400V | Eleectrolytic | AX |
| C7202 | 95C0C157R1010 | J | 100p | 1kV | Ceramic | AK |
| C7203 | 95C0C1A9R1020 | J | 1000p | 1kV | Ceramic | AK |
| C7205 | 95C0C1Q2E1030 | J | 0.01 | 50V | Ceramic | AH |
| C7206 | 95C0C195C1040 | J | 0.1 | 25V | Ceramic | AD |
| C7207 | 95C0C1Q2E1030 | J | 0.01 | 50V | Ceramic | AH |
| C7208 | 95C0C3A0D3300 | J | 33 | 35V | Eleectrolytic | AK |
| C7209 | 95C0C1Q1E4710 | J | 470p | 50V | Ceramic | AH |
| C7210 | 95C0C1Q2E1030 | J | 0.01 | 50V | Ceramic | AH |
| C7211 | 95C0C1Q2C4730 | J | 0.047 | 25V | Ceramic | AH |
| C7213 | 95C0C1Q2E1030 | J | 0.01 | 50V | Ceramic | AH |
| C7216 | 95C0C195B4740 | J | 0.47 | 16V | Ceramic | AD |

# RDENCA055WJZZ
## POWER UNIT(Continued)

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| C7301 | 95C0C1A9R2210 | J | 220p | 1kV | Ceramic | AF |
| C7302 | 95C0C3A0C8210 | J | 820 | 25V | Eleectrolytic | AQ |
| C7303 | 95C0C3A0C8210 | J | 820 | 25V | Eleectrolytic | AQ |
| C7304 | 95C0C364E1R00 | J | 1 | 50V | Eleectrolytic | AL |
| C7351 | 95C0C374D5610 | J | 560 | 35V | Eleectrolytic | AP |
| C7352 | 95C0C1Q2B1040 | J | 0.1 | 16V | Ceramic | AH |
| C7353 | 95C0C374D5610 | J | 560 | 35V | Eleectrolytic | AP |
| C7354 | 95C0C1Q2B1040 | J | 0.1 | 16V | Ceramic | AH |
| C7401 | 95C0C3A0B1020 | J | 1000 | 16V | Eleectrolytic | AQ |
| C7402 | 95C0C3A0B1020 | J | 1000 | 16V | Eleectrolytic | AQ |
| C7404 | 95C0C374A1020 | J | 1000 | 10V | Eleectrolytic | AN |
| C7405 | 95C0C374A1020 | J | 1000 | 10V | Eleectrolytic | AN |
| C7406 | 95C0C195C1040 | J | 0.1 | 25V | Ceramic | AD |
| C7407 | 95C0C195C1040 | J | 0.1 | 25V | Ceramic | AD |
| C7408 | 95C0C364E4R70 | J | 4.7 | 50V | Eleectrolytic | AL |
| C7409 | 95C0C1Q2E1030 | J | 0.01 | 50V | Ceramic | AH |
| C7410 | 95C0C1Q2E1020 | J | 1000p | 50V | Ceramic | AH |
| C7411 | 95C0C1Q1E2210 | J | 220p | 50V | Ceramic | AH |
| C7412 | 95C0C1Q2E3320 | J | 3300p | 50V | Ceramic | AH |
| C7413 | 95C0C1Q2B1040 | J | 0.1 | 16V | Ceramic | AH |
| C7417 | 95C0C1A9R2210 | J | 220p | 1kV | Ceramic | AF |
| C7428 | 95C0C374C1210 | J | 120 | 25V | Eleectrolytic | AL |
| ⚠ C7430 | 95C0C1H8Q1020 | J | 1000p | AC250V | Ceramic | AH |
| ⚠ C7431 | 95C0C1H8Q1020 | J | 1000p | AC250V | Ceramic | AH |
| ⚠ C7432 | 95C0C1H8Q4710 | J | 470p | AC250V | Ceramic | AG |
| ⚠ C7433 | 95C0C1H8Q4710 | J | 470p | AC250V | Ceramic | AG |

### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R7106 | 95C0R3Q4S0000 | J | 0 | 1/16W | | AC |
| ⚠ R7001 | 95C0R105C2740 | J | 270k | 1W | | AF |
| R7002 | 95C0R390T1000 | J | 10 | 1/4W | | AC |
| R7003 | 95C0R390T1000 | J | 10 | 1/4W | | AC |
| R7004 | 95C0R3Q4S1020 | J | 1k | 1/16W | Chip1608 | AH |
| R7005 | 95CR5022FQ4R7 | J | 4.7 | 5W | | AP |
| R7006 | 95CR5015GQ4R7 | J | 4.7 | 5W | | AB |
| R7007 | 95C0R391T1840 | J | 180k | 1/4W | | AC |
| R7008 | 95C0R451C1000 | J | 10 | 1W | | AD |
| R7009 | 95C0R3Q8S2720 | J | 2.7k | 1/16W | Chip1608 | AH |
| R7010 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7012 | 95C0R3Q8S3930 | J | 39k | 1/16W | Chip1608 | AH |
| R7013 | 95C0R3Q4S1000 | J | 10 | 1/16W | Chip1608 | AH |
| R7014 | 95C0R391T1840 | J | 180k | 1/4W | | AC |
| R7015 | 95C0R391T1840 | J | 180k | 1/4W | | AC |
| R7016 | 95C0R3Q4S2740 | J | 270k | 1/16W | Chip1608 | AH |
| R7017 | 95C0R3Q4S3340 | J | 330k | 1/16W | Chip1608 | AH |
| R7018 | 95C0R390T2200 | J | 22 | 1/4W | Chip3216 | AH |
| R7019 | 95C0R390T4700 | J | 47 | 1/4W | Chip3216 | AH |
| R7020 | 95C0R3Q4S3330 | J | 33k | 1/16W | Chip1608 | AH |
| R7021 | 95C0R390T1000 | J | 10 | 1/4W | | AC |
| R7022 | 95C0R516FR100 | J | 0.1 | 3W | | AN |
| R7023 | 95C0R516FR100 | J | 0.1 | 3W | | AN |
| R7025 | 95C0R362U1500 | J | 15 | 1/6W | Fuse Resistor | AK |
| R7026 | 95C0R362U1500 | J | 15 | 1/6W | Fuse Resistor | AK |
| R7029 | 95C0R391T2240 | J | 220k | 1/4W | | AH |
| R7031 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7032 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7034 | 95C0R3Q4S1010 | J | 100 | 1/16W | Chip1608 | AH |
| R7035 | 95C0R3Q8S2720 | J | 2.7k | 1/16W | Chip1608 | AH |
| R7036 | 95C0R3Q8S1010 | J | 100 | 1/16W | | AC |
| R7037 | 95C0R3Q8S2220 | J | 2.2k | 1/16W | Chip1608 | AH |
| R7038 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7039 | 95C0R3Q4S3320 | J | 3.3k | 1/16W | Chip1608 | AH |
| R7040 | 95C0R391T2240 | J | 220k | 1/4W | | AH |
| R7041 | 95C0R391T2240 | J | 220k | 1/4W | | AH |
| R7042 | 95C0R391T1840 | J | 180k | 1/4W | | AC |
| R7043 | 95C0R391T1840 | J | 180k | 1/4W | | AC |
| R7044 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7045 | 95C0R3Q4S2740 | J | 270k | 1/16W | Chip1608 | AH |
| R7046 | 95C0R3Q4S2740 | J | 270k | 1/16W | Chip1608 | AH |
| R7047 | 95C0R3Q8S1330 | J | 13k | 1/16W | | AH |
| R7048 | 95C0R391T1840 | J | 180k | 1/4W | | AC |
| R7049 | 95C0R3Q4S2220 | J | 2.2k | 1/16W | Chip1608 | AH |
| R7050 | 95C0R391T4740 | J | 470k | 1/4W | Chip3216 | AH |
| R7051 | 95C0R391T4740 | J | 470k | 1/4W | Chip3216 | AH |
| R7052 | 95C0R3Q0V2730 | J | 27k | 1/8W | Chip2012 | AH |
| R7053 | 95C0R390T5620 | J | 5.6k | 1/4W | Chip3216 | AC |
| R7054 | 95C0R390T3340 | J | 330k | 1/4W | Chip3216 | AC |
| R7055 | 95C0R390T3340 | J | 330k | 1/4W | Chip3216 | AC |
| R7056 | 95C0R390T3340 | J | 330k | 1/4W | Chip3216 | AC |
| R7057 | 95C0R391T4740 | J | 470k | 1/4W | Chip3216 | AH |
| R7061 | 95C0R451C1000 | J | 10 | 1W | | AD |
| R7101 | 95C0R3Q4S2240 | J | 220k | 1/16W | Chip1608 | AH |
| R7102 | 95C0R3Q4S2710 | J | 270 | 1/16W | Chip1608 | AH |
| R7103 | 95C0R3Q4S3330 | J | 33k | 1/16W | Chip1608 | AH |
| R7104 | 95C0R3Q4S6810 | J | 680 | 1/16W | Chip1608 | AH |
| R7105 | 95C0R3Q4S8220 | J | 8.2k | 1/16W | Chip1608 | AH |
| R7107 | 95C0R3Q4S2230 | J | 22k | 1/16W | | AH |
| R7108 | 95C0R3Q4S4730 | J | 47k | 1/16W | Chip1608 | AH |
| R7110 | 95C0R3Q8S2740 | J | 270k | 1/16W | | AC |
| R7112 | 95C0R3Q4S1040 | J | 100k | 1/16W | Chip1608 | AH |
| R7113 | 95C0R390T3340 | J | 330k | 1/4W | Chip3216 | AC |
| R7114 | 95C0R390T2740 | J | 270k | 1/4W | Chip3216 | AC |
| R7115 | 95C0R3Q4S6820 | J | 6.8k | 1/16W | Chip1608 | AH |
| R7116 | 95C0R3Q4S6830 | J | 68k | 1/16W | Chip1608 | AH |
| R7117 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7118 | 95C0R3Q4S2240 | J | 220k | 1/16W | Chip1608 | AH |
| R7119 | 95C0R3Q4S4730 | J | 47k | 1/16W | Chip1608 | AH |
| R7120 | 95C0R3Q0V4730 | J | 47k | 1/16W | | AH |
| R7121 | 95C0R390T3340 | J | 330k | 1/4W | Chip3216 | AC |
| R7123 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7124 | 95C0R3Q4S1010 | J | 100 | 1/16W | Chip1608 | AH |
| R7125 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7126 | 95C0R3Q4S1040 | J | 100k | 1/16W | Chip1608 | AH |
| R7127 | 95C0R3Q4S1000 | J | 10 | 1/16W | Chip1608 | AH |
| R7151 | 95C0R3Q4S8210 | J | 820 | 1/16W | Chip1608 | AH |
| R7152 | 95C0R3Q4S5610 | J | 560 | 1/16W | Chip1608 | AH |
| R7153 | 95C0R3Q4S6820 | J | 6.8k | 1/16W | Chip1608 | AH |
| R7154 | 95C0R3Q4S5610 | J | 560 | 1/16W | Chip1608 | AH |
| R7155 | 95C0R3Q8S2720 | J | 2.7k | 1/16W | Chip1608 | AH |
| R7156 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7157 | 95C0R3Q4S1020 | J | 1k | 1/16W | Chip1608 | AH |
| R7158 | 95C0R3Q4S6800 | J | 68 | 1/16W | Chip1608 | AH |
| R7159 | 95C0R3Q8S2220 | J | 2.2k | 1/16W | Chip1608 | AH |
| R7201 | 95C0R390T1500 | J | 15 | 1/4W | | AH |
| R7207 | 95C0R452D3930 | J | 39k | 2W | | AK |
| R7208 | 95C0R452D3930 | J | 39k | 2W | | AK |
| R7209 | 95C0R516FR220 | J | 0.22 | 3W | | AR |
| R7210 | 95C0R390T1000 | J | 10 | 1/4W | | AC |
| R7211 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7212 | 95C0R3Q4S1040 | J | 100k | 1/16W | Chip1608 | AH |
| R7213 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7215 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7217 | 95C0R3Q4S1810 | J | 180 | 1/16W | | AB |
| R7218 | 95C0R3Q8S1830 | J | 18k | 1/16W | Chip1608 | AH |
| R7219 | 95C0R3Q4S1020 | J | 1k | 1/16W | Chip1608 | AH |
| R7220 | 95C0R3Q4S1510 | J | 150 | 1/16W | Chip1608 | AH |
| R7221 | 95C0R3Q4S1020 | J | 1k | 1/16W | Chip1608 | AH |
| R7301 | 95C0R3Q4S2220 | J | 2.2k | 1/16W | Chip1608 | AH |
| R7302 | 95C0R3Q4S2220 | J | 2.2k | 1/16W | Chip1608 | AH |
| R7303 | 95C0R3Q4S1010 | J | 100 | 1/16W | Chip1608 | AH |
| R7304 | 95C0R3Q4S1020 | J | 1k | 1/16W | Chip1608 | AH |
| R7305 | 95C0R3Q4S6820 | J | 6.8k | 1/16W | Chip1608 | AH |
| R7306 | 95C0R3Q8S1820 | J | 1.8k | 1/16W | Chip1608 | AC |
| R7307 | 95C0R3Q4S4710 | J | 470 | 1/16W | Chip1608 | AH |
| R7308 | 95C0R3Q8S2720 | J | 2.7k | 1/16W | Chip1608 | AH |
| R7309 | 95C0R3Q8S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7351 | 95C0R3Q4S2220 | J | 2.2k | 1/16W | Chip1608 | AH |
| R7352 | 95C0R3Q4S8200 | J | 82 | 1/16W | Chip1608 | AH |
| R7353 | 95C0R3Q1V2710 | J | 270 | 1/8W | Chip2012 | AH |
| R7354 | 95C0R3Q8S1020 | J | 1k | 1/16W | Chip1608 | AH |
| R7355 | 95C0R3Q8S4720 | J | 4.7k | 1/16W | Chip1608 | AH |
| R7401 | 95C0R516FR050 | J | 0.05 | 3W | | AQ |
| R7402 | 95C0R516FR050 | J | 0.05 | 3W | | AQ |
| R7403 | 95C0R3Q8S2210 | J | 220 | 1/16W | | AH |
| R7404 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7405 | 95C0R3Q4S1030 | J | 10k | 1/16W | Chip1608 | AH |
| R7406 | 95C0R3Q4S1020 | J | 1k | 1/16W | Chip1608 | AH |

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## POWER UNIT(Continued)

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| R7407 | 95C0R3Q4S2240 | J | 220k 1/16W Chip1608 | AH |
| R7408 | 95C0R3Q4S1000 | J | 10 1/16W Chip1608 | AH |
| R7409 | 95C0R3Q4S6800 | J | 68 1/16W Chip1608 | AH |
| R7411 | 95C0R3Q4S1530 | J | 15k 1/16W Chip1608 | AH |
| R7412 | 95C0R3Q4S8220 | J | 8.2k 1/16W Chip1608 | AH |
| R7413 | 95C0R3Q4S1030 | J | 10k 1/16W Chip1608 | AH |
| R7414 | 95C0R3Q4S1030 | J | 10k 1/16W Chip1608 | AH |
| R7415 | 95C0R3Q8S1530 | J | 15k 1/16W Chip1608 | AH |
| R7416 | 95C0R3Q4S1030 | J | 10k 1/16W Chip1608 | AH |
| R7417 | 95C0R3Q4S1030 | J | 10k 1/16W Chip1608 | AH |
| R7418 | 95C0R3Q0V2730 | J | 27k 1/8W Chip2012 | AH |
| R7419 | 95C0R3Q4S3910 | J | 390 1/16W Chip1608 | AH |
| R7420 | 95C0R3Q4S1000 | J | 10 1/16W Chip1608 | AH |
| R7421 | 95C0R3Q4S3910 | J | 390 1/16W Chip1608 | AH |
| R7430 | 95C0R3Q8S2220 | J | 2.2k 1/16W Chip1608 | AH |
| R7431 | 95C0R3Q8S8210 | J | 820 1/16W | AH |
| ⚠ R7432 | 95C0R390T5640 | J | 560k 1/4W Chip3216 | AH |
| ⚠ R7433 | 95C0R390T5640 | J | 560k 1/4W Chip3216 | AH |
| ⚠ R7434 | 95C0R390T5640 | J | 560k 1/4W Chip3216 | AH |

### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| BEA7003 | 95C0W000A0050 | J | Jumper, 5mm | AD |
| BEA7014 | 95C0L551A0010 | J | Ferrite Bead, BL02RN1-R62 T2 | AD |
| BEA7202 | 95C0L551A0010 | J | Ferrite Bead, BL02RN1-R62 T2 | AD |
| BEA7204 | 95C0L551A0010 | J | Ferrite Bead, BL02RN1-R62 T2 | AD |
| CN7003 | 95C0WPF2004 | J | Connector | AR |
| CN7101 | 95C0K202B0130 | J | Connector, B13B-PH-K-S | AR |
| CN7102 | 95C0K202B0100 | J | Connector, B10B-PH-K-S | AP |
| CN7103 | 95C0K202B0020 | J | Connector, B2B-PH-K-S | AK |
| CN7104 | 95C0K206S0010 | J | Connector, AC-P07CN16 | AT |
| CN7106 | 95C0K251A0020 | J | Connector, B2P3-VH | AF |
| ⚠ F7001 | 95C0K718A6R30 | J | Fuse, AC250V 6.3AH 215 | AN |
| ⚠ F7002 | 95C0K718A1R60 | J | Fuse, AC250V 1.6AH 215 | AN |
| FH7001 | 95C0M850A0010 | J | Fuse Holder, TP00351-51 | AK |
| FH7002 | 95C0M850A0010 | J | Fuse Holder, TP00351-51 | AK |
| FH7003 | 95C0M850A0010 | J | Fuse Holder, TP00351-51 | AK |
| FH7004 | 95C0M850A0010 | J | Fuse Holder, TP00351-51 | AK |
| J7001 | 95C0W000A0070 | J | Jumper, 7.5mm | AH |
| ⚠ RL7001 | 95CK3101AS001 | J | Relay, DJ5D2-0(M) TV-5 | AZ |
| SHT7001 | 95C0PPS1020 | J | Sheet | AQ |
| SHT7002 | 95C0PPS1020 | J | Sheet | AQ |
| HS7001 | 95C0MPF0017 | J | Heat Sink | AT |
| HS7003 | 95C0MPF0017 | J | Heat Sink | AT |
| HS7004 | 95C0MPF0019 | J | Heat Sink | AT |
| HS7101 | 95C0MPF0018 | J | Heat Sink | AT |

# CPCi-A008CE01

## PC I/F UNIT

### INTEGRATED CIRCUITS

| | | | | |
|---|---|---|---|---|
| IC8001 | RH-iX3270CEZZ | J | HD6417709(SH7709) | BH |
| IC8002 | 9DK001-15061 | J | PST600IM | AL |
| IC8003 | 9DK001-11045 | J | AT24C128N-10SJ-2.7 | AS |
| IC8004 | 9DK001-15122 | J | PQ070XH02Z | BC |
| IC8007 | 9DK001-12055 | J | TC7WH241FU | AN |
| IC8008 | 9DK001-15147 | J | PQ050DZ01Z 5V1.0A | AG |
| IC8011 | 9DK001-11046 | J | 24LC02B-I/SN | AM |
| IC8019 | 9DK001-15060 | J | PST623XW | AP |
| IC8025 | RH-iXA091WJZZQ | J | CVIC2 | BX |
| IC8027 | RH-iXA823WJZZQ | J | LH28F320BFE | AX |
| IC8028 | 9DK001-11027 | J | MSM51V18165F-60TS-K | AX |
| IC8029 | RH-iX3399CEN1 | J | IX3399CE | BM |
| IC8052 | 9DK001-12089 | J | NC7ST08M5 | AG |
| IC8053 | 9DK001-12057 | J | TC74LVX86FT | AM |
| IC8298 | VHiSii169G+-1Q | J | SiI169CTG | BC |
| IC8302 | 9DK001-12107 | J | 74VHC153MTC | AK |
| IC8306 | 9DK001-12070 | J | HD74HCT125T | AL |
| IC8319 | 9DK001-15153 | J | BU4053BCFV | AL |
| IC8320 | 9DK001-15153 | J | BU4053BCFV | AL |
| IC8321 | 9DK001-15153 | J | BU4053BCFV | AL |
| IC8322 | 9DK001-15153 | J | BU4053BCFV | AL |
| IC8325 | 9DK001-12103 | J | 74LCX157MTC | AK |
| IC8330 | 9DK001-15103 | J | CXA3516AR | BQ |
| IC8331 | 9DK001-15103 | J | CXA3516AR | BQ |
| IC8333 | 9DK001-12089 | J | NC7ST08M5 | AG |
| IC8338 | VHiVPC3230D1EQ | J | VPC3230D | BD |
| IC8361 | 9KD001-11043 | J | HY57V643220CT-7 | AY |
| IC8364 | 9DK001-15151 | J | PQ033DZ01Z 3.3V1.0A | AG |
| IC8366 | 9DK001-12105 | J | 74LVX125MTC | AK |
| IC8367 | 9DK001-15150 | J | LM319M | AN |
| IC8368 | 9DK001-15152 | J | BU9831F | AT |
| IC8369 | 9DK001-11049 | J | 24LC21A-/SN | AN |
| IC8370 | 9DK001-15075 | J | SM5301AS | BF |
| IC8371 | 9DK001-15089 | J | TL712CPW | AR |

### TRANSISTOR

| | | | | |
|---|---|---|---|---|
| Q8012 | 9DK001-20039 | J | IMB3AF | AE |
| Q8018 | 9DK001-20036 | J | NDC7002N | AL |
| Q8019 | 9DK001-20041 | J | 2SC2412KF | AC |
| Q8020 | 9DK001-20041 | J | 2SC2412KF | AC |
| Q8021 | 9DK001-20041 | J | 2SC2412KF | AC |
| Q8022 | 9DK001-20045 | J | HN1B04FU | AL |
| Q8023 | 9DK001-20041 | J | 2SC2412KF | AC |
| Q8024 | 9DK001-20041 | J | 2SC2412KF | AC |

### DIODES

| | | | | |
|---|---|---|---|---|
| D8001 | 9DK001-30026 | J | MA3S137 | AD |
| D8002 | 9DK001-30026 | J | MA3S137 | AD |
| D8009 | 9DK001-30027 | J | 1SS355F | AC |
| D8012 | 9DK001-30026 | J | MA3S137 | AD |
| D8013 | 9DK001-30026 | J | MA3S137 | AD |
| D8020 | 9DK001-30027 | J | 1SS355F | AC |
| D8028 | 9DK001-30027 | J | 1SS355F | AC |
| D8029 | 9DK001-30027 | J | 1SS355F | AC |
| D8035 | 9DK001-30027 | J | 1SS355F | AC |
| D8036 | 9DK001-30026 | J | MA3S137 | AD |
| D8037 | 9DK001-30026 | J | MA3S137 | AD |
| D8038 | 9DK001-30026 | J | MA3S137 | AD |
| D8039 | 9DK001-30026 | J | MA3S137 | AD |
| D8040 | 9DK001-30026 | J | MA3S137 | AD |
| D8041 | 9DK001-30026 | J | MA3S137 | AD |
| D8042 | 9DK001-30026 | J | MA3S137 | AD |
| D8043 | 9DK001-30026 | J | MA3S137 | AD |
| D8044 | 9DK001-30026 | J | MA3S137 | AD |
| D8045 | 9DK001-30026 | J | MA3S137 | AD |
| D8046 | 9DK001-30026 | J | MA3S137 | AD |
| D8047 | 9DK001-30026 | J | MA3S137 | AD |
| D8048 | 9DK001-30026 | J | MA3S137 | AD |
| D8049 | 9DK001-30027 | J | 1SS355F | AC |
| D8056 | 9DK001-30026 | J | MA3S137 | AB |

# CPCi-A008CE01
## PC I/F UNIT(Continued)

### PACKAGED CIRCUITS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| X8001 | 9DK001-80012 | J | CX-5F(6MHz Å}50PPM) | AN |
| X8003 | 9DK001-80011 | J | FXO-31FL(1.8432MHz) | AS |
| X8004 | 9DK001-80018 | J | FXO-31FL(25.000MHz) | AV |
| X8005 | 9DK001-80036 | J | FXO-31FL(37.125MHz) | AR |
| X8006 | 9DK001-80020 | J | 20.25MHz (CX-5F, CX-49F, SMD-49) | AR |

### COILS AND FILTERS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| FB8015 | 9DK001-81084 | J | BLM21AF121SN1D | AD |
| FL8107 | 9DK001-82032 | J | BMS400S | AG |
| FL8108 | 9DK001-82032 | J | BMS400S | AG |
| FL8109 | 9DK001-82032 | J | BMS400S | AG |
| FL8141 | 9DK001-82033 | J | Filter, NFA31GD4704704D | AL |
| FL8142 | 9DK001-82033 | J | Filter, NFA31GD4704704D | AL |
| FL8143 | 9DK001-82033 | J | Filter, NFA31GD4704704D | AL |
| FL8144 | 9DK001-82033 | J | Filter, NFA31GD4704704D | AL |
| FL8145 | 9DK001-82033 | J | Filter, NFA31GD4704704D | AL |
| FL8146 | 9DK001-82033 | J | Filter, NFA31GD4704704D | AL |
| FL8147 | 9DK001-82033 | J | Filter, NFA31GD4704704D | AL |
| FL8148 | 9DK001-82033 | J | Filter, NFA31GD4704704D | AL |
| FL8149 | 9DK001-82033 | J | Filter, NFA31GD4704704D | AL |
| FL8150 | 9DK001-82032 | J | BMS400S | AG |
| L8001 | 9DK001-81082 | J | NLCV32T-3R3M | AD |
| L8002 | 9DK001-81082 | J | NLCV32T-3R3M | AD |
| L8003 | 9DK001-81082 | J | NLCV32T-3R3M | AD |
| L8004 | 9DK001-81082 | J | NLCV32T-3R3M | AD |
| L8007 | 9DK001-81062 | J | BLM21P221SG | AE |
| L8008 | 9DK001-81062 | J | BLM21P221SG | AE |
| L8014 | 9DK001-81082 | J | NLCV32T-3R3M | AD |
| L8020 | 9DK001-81060 | J | BLM21B201SPT | AF |
| L8021 | 9DK001-81060 | J | BLM21B201SPT | AF |
| L8035 | 9DK001-81082 | J | NLCV32T-3R3M | AD |
| L8052 | 9DK001-81082 | J | NLCV32T-3R3M | AD |
| L8053 | 9DK001-81083 | J | DLP31DN131ML4 | AR |
| L8054 | 9DK001-81083 | J | DLP31DN131ML4 | AR |
| L8055 | 9DK001-81083 | J | DLP31DN131ML4 | AR |
| L8056 | 9DK001-81083 | J | DLP31DN131ML4 | AR |
| L8060 | 9DK001-81060 | J | BLM21B201SPT | AF |
| L8061 | 9DK001-81062 | J | BLM21P221SG | AE |

### CAPACITORS

| Ref. No. | Part No. | ★ | | | | Code |
|---|---|---|---|---|---|---|
| C8001 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8002 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8003 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8006 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8009 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8012 | 9DK001-42103 | J | 15p | 50V | Ceramic | AC |
| C8013 | 9DK001-42103 | J | 15p | 50V | Ceramic | AC |
| C8019 | 9DK001-42104 | J | 470p | 50V | Ceramic | AC |
| C8020 | 9DK001-42104 | J | 470p | 50V | Ceramic | AC |
| C8021 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8022 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8024 | 9DK001-40154 | J | 10 | 16V | Electrolytic | AD |
| C8026 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8028 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8029 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8030 | 9DK001-42105 | J | 0.047 | 50V | Ceramic | AC |
| C8031 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8032 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8033 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8035 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8039 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8042 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8043 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8052 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8053 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8062 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8070 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8078 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8079 | 9DK001-40155 | J | 22 | 16V | Electrolytic | AD |
| C8081 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8082 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8084 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8096 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8110 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8111 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8112 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8113 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8114 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8115 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8116 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8117 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8118 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8119 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8120 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8121 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8122 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8123 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8124 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8125 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8126 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8127 | 9DK001-42099 | J | 100p | 50V | Ceramic | AC |
| C8128 | 9DK001-42149 | J | 0.33 | 16V | Film | AM |
| C8130 | 9DK001-42099 | J | 100p | 50V | Ceramic | AC |
| C8131 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8132 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8133 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8134 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8135 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8136 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8137 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8138 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8143 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8144 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8145 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8146 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8147 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8148 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8149 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8150 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8192 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8197 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8205 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8214 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8218 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8252 | 9DK001-40160 | J | 100 | 6.3V | Electrolytic | AD |
| C8255 | 9DK001-40161 | J | 220 | 4V | Electrolytic | AD |
| C8256 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8257 | 9DK001-40160 | J | 100 | 6.3V | Electrolytic | AD |
| C8349 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8367 | 9DK001-40159 | J | 100 | 4V | Electrolytic | AD |
| C8375 | 9DK001-40159 | J | 100 | 4V | Electrolytic | AD |
| C8376 | 9DK001-40156 | J | 47 | 16V | Electrolytic | AD |
| C8435 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8437 | 9DK001-42099 | J | 100p | 50V | Ceramic | AC |
| C8438 | 9DK001-42099 | J | 100p | 50V | Ceramic | AC |
| C8439 | 9DK001-42099 | J | 100p | 50V | Ceramic | AC |
| C8440 | 9DK001-42099 | J | 100p | 50V | Ceramic | AC |
| C8441 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8442 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8444 | 9DK001-42099 | J | 100p | 50V | Ceramic | AC |
| C8448 | 9DK001-42122 | J | 180p | 50V | Ceramic | AC |
| C8449 | 9DK001-42122 | J | 180p | 50V | Ceramic | AC |
| C8450 | 9DK001-42122 | J | 180p | 50V | Ceramic | AC |
| C8451 | 9DK001-42131 | J | 10 | 10V | Ceramic | AE |
| C8453 | 9DK001-42131 | J | 10 | 10V | Ceramic | AE |
| C8457 | 9DK001-42123 | J | 330p | 50V | Ceramic | AC |
| C8458 | 9DK001-42123 | J | 330p | 50V | Ceramic | AC |
| C8459 | 9DK001-42123 | J | 330p | 50V | Ceramic | AC |
| C8465 | 9DK001-42123 | J | 330p | 50V | Ceramic | AC |
| C8468 | 9DK001-42123 | J | 330p | 50V | Ceramic | AC |
| C8485 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8503 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8529 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8532 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8562 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |

# CPCi-A008CE01
## PC I/F UNIT(Continued)

| Ref. No. | Part No. | ★ | | | Description | Code |
|---|---|---|---|---|---|---|
| C8563 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8564 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8565 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8566 | 9DK001-42123 | J | 330p | 50V | Ceramic | AC |
| C8569 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8573 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8574 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8575 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8576 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8577 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8578 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8579 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8582 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8583 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8586 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8587 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8588 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8589 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8590 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8591 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8592 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8593 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8596 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8597 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8600 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8601 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8603 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8607 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8609 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8611 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8613 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8615 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8617 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8619 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8621 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8623 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8625 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8627 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8629 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8631 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8633 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8635 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8637 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8638 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8640 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8641 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8648 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8649 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8656 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8658 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8662 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8666 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8668 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8670 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8672 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8678 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8682 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8685 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8686 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8687 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8688 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8689 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8697 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8707 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8708 | 9DK001-40157 | J | 47 | 4V | Electrolytic | AD |
| C8744 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8745 | 9DK001-42095 | J | 0.1 | 25V | Ceramic | AC |
| C8746 | 9DK001-42112 | J | 33p | 50V | Ceramic | AB |
| C8747 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8748 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8749 | 9DK001-42112 | J | 33p | 50V | Ceramic | AB |
| C8750 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8752 | 9DK001-42113 | J | 4.7 | 10V | Ceramic | AB |
| C8759 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8785 | 9DK001-42144 | J | 0.68 | 10V | Ceramic | AC |
| C8786 | 9DK001-42144 | J | 0.68 | 10V | Ceramic | AC |
| C8787 | 9DK001-42144 | J | 0.68 | 10V | Ceramic | AC |
| C8788 | 9DK001-42144 | J | 0.68 | 10V | Ceramic | AC |
| C8790 | 9DK001-42131 | J | 10 | 10V | Ceramic | AE |
| C8791 | 9DK001-42131 | J | 10 | 10V | Ceramic | AE |
| C8792 | 9DK001-42139 | J | 1500p | 50V | Ceramic | AC |
| C8793 | 9DK001-42139 | J | 1500p | 50V | Ceramic | AC |
| C8794 | 9DK001-42116 | J | 390p | 50V | Ceramic | AC |
| C8795 | 9DK001-42116 | J | 390p | 50V | Ceramic | AC |
| C8797 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8798 | 9DK001-42105 | J | 0.047 | 50V | Ceramic | AC |
| C8799 | 9DK001-40159 | J | 100 | 4V | Electrolytic | AD |
| C8800 | 9DK001-40154 | J | 10 | 16V | Electrolytic | AD |
| C8802 | 9DK001-42130 | J | 2200p | | Ceramic | AC |
| C8804 | 9DK001-42143 | J | 0.22 | 16V | Ceramic | AC |
| C8805 | 9DK001-42115 | J | 10p | 50V | Ceramic | AC |
| C8806 | 9DK001-42115 | J | 10p | 50V | Ceramic | AC |
| C8807 | 9DK001-42123 | J | 330p | 50V | Ceramic | AC |
| C8810 | 9DK001-42143 | J | 0.22 | 16V | Ceramic | AC |
| C8811 | 9DK001-42139 | J | 1500p | 50V | Ceramic | AC |
| C8812 | 9DK001-42116 | J | 390p | 50V | Ceramic | AC |
| C8813 | 9DK001-42139 | J | 1500p | 50V | Ceramic | AC |
| C8814 | 9DK001-42105 | J | 0.047 | 50V | Ceramic | AC |
| C8815 | 9DK001-42142 | J | 0.068 | 50V | Ceramic | AC |
| C8816 | 9DK001-42142 | J | 0.068 | 50V | Ceramic | AC |
| C8817 | 9DK001-42142 | J | 0.068 | 50V | Ceramic | AC |
| C8818 | 9DK001-42139 | J | 1500p | 50V | Ceramic | AC |
| C8819 | 9DK001-42105 | J | 0.047 | 50V | Ceramic | AC |
| C8824 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8825 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8827 | 9DK001-42142 | J | 0.068 | 50V | Ceramic | AC |
| C8828 | 9DK001-40161 | J | 220 | 4V | Electrolytic | AD |
| C8861 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8868 | 9DK001-42120 | J | 47p | 50V | Ceramic | AC |
| C8873 | 9DK001-40158 | J | 47 | 6.3V | Electrolytic | AD |
| C8874 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8875 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8880 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8883 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8884 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8885 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8886 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8887 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8888 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8889 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8890 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8891 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8892 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8893 | 9DK001-40159 | J | 100 | 4V | Electrolytic | AD |
| C8894 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8901 | 9DK001-40153 | J | 0.47 | 50V | Elect.(N.P) | AE |
| C8902 | 9DK001-42108 | J | 5p | 50V | Ceramic | AB |
| C8903 | 9DK001-42130 | J | 2200p | | Ceramic | AC |
| C8904 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8905 | 9DK001-42113 | J | 4.7 | 10V | Ceramic | AB |
| C8906 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8907 | 9DK001-42113 | J | 4.7 | 10V | Ceramic | AB |
| C8910 | 9DK001-42128 | J | 1000p | | Ceramic | AC |
| C8914 | 9DK001-42144 | J | 0.68 | 10V | Ceramic | AC |

### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| FL8001 | 9DK001-50110 | J | 0 | 1/10W | Chip 2125 | AB |
| FL8005 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8006 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8021 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8023 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8029 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8039 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8040 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8041 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8094 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |

# CPCi-A008CE01
## PC I/F UNIT(Continued)

| Ref. No. | Part No. | ★ | | | Description | Code |
|---|---|---|---|---|---|---|
| FL8095 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8096 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8097 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8098 | 9DK001-50110 | J | 0 | 1/10W | Chip 2125 | AB |
| FL8099 | 9DK001-50110 | J | 0 | 1/10W | Chip 2125 | AB |
| FL8100 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8103 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8111 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8112 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8113 | 9DK001-50113 | J | 0 | 1/4W | Chip 3216 | AB |
| FL8110 | 9DK001-50110 | J | 0 | 1/10W | Chip 2125 | AB |
| FL8114 | 9DK001-50110 | J | 0 | 1/10W | Chip 2125 | AB |
| C8463 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| C8464 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| C8466 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8001 | 9DK001-51036 | J | 100 | 1/16W | Chip | AD |
| R8004 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8005 | 9DK001-50165 | J | 100 | 1/16W | Chip 1608 | AA |
| R8006 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8007 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8009 | 9DK001-50219 | J | 47k | 1/16W | Chip 1608 | AA |
| R8010 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8011 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8012 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8013 | 9DK001-50165 | J | 100 | 1/16W | Chip 1608 | AA |
| R8014 | 9DK001-50224 | J | 150 | 1/4W | Chip 3216 | AB |
| R8015 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8016 | 9DK001-50198 | J | 1.69k | 1/16W | Chip 1608 | AB |
| R8017 | 9DK001-50210 | J | 33k | 1/16W | Chip 1608 | AA |
| R8018 | 9DK001-50199 | J | 2.15k | 1/16W | Chip 1608 | AB |
| R8019 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8022 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8025 | 9DK001-50162 | J | 56 | 1/16W | Chip 1608 | AA |
| R8026 | 9DK001-50075 | J | 75 | 1/10W | Chip 2125 | AB |
| R8027 | 9DK001-50209 | J | 27k | 1/16W | Chip 1608 | AA |
| R8029 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8030 | 9DK001-50075 | J | 75 | 1/10W | Chip 2125 | AB |
| R8032 | 9DK001-50075 | J | 75 | 1/10W | Chip 2125 | AB |
| R8033 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8034 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8035 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8036 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8037 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8038 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8040 | 9DK001-50163 | J | 68 | 1/16W | Chip 1608 | AA |
| R8043 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8044 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8050 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8051 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8053 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8057 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8058 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8062 | 9DK001-51029 | J | 10 | 1/16W | Chip | AD |
| R8065 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8071 | 9DK001-50159 | J | 22 | 1/16W | Chip 1608 | AA |
| R8072 | 9DK001-50159 | J | 22 | 1/16W | Chip 1608 | AA |
| R8075 | 9DK001-50159 | J | 22 | 1/16W | Chip 1608 | AA |
| R8080 | 9DK001-50049 | J | 1.5k | 1/10W | Chip 2125 | AB |
| R8083 | 9DK001-50159 | J | 22 | 1/16W | Chip 1608 | AA |
| R8088 | 9DK001-50049 | J | 1.5k | 1/10W | Chip 2125 | AB |
| R8091 | 9DK001-50159 | J | 22 | 1/16W | Chip 1608 | AA |
| R8095 | 9DK001-50186 | J | 22k | 1/16W | Chip 1608 | AA |
| R8096 | 9DK001-50049 | J | 1.5k | 1/10W | Chip 2125 | AB |
| R8121 | 9DK001-52292 | J | 8.2 | 1/4W | Chip 3216 | AA |
| R8122 | 9DK001-52292 | J | 8.2 | 1/4W | Chip 3216 | AA |
| R8128 | 9DK001-50150 | J | 10 | 1/16W | Chip 1608 | AA |
| R8130 | 9DK001-50210 | J | 33k | 1/16W | Chip 1608 | AA |
| R8131 | 9DK001-50210 | J | 33k | 1/16W | Chip 1608 | AA |
| R8132 | 9DK001-50289 | J | 3.3k | 1/16W | Chip 1608 | AA |
| R8133 | 9DK001-50155 | J | 3k | 1/16W | Chip 1608 | AB |
| R8138 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8140 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8143 | 9DK001-50176 | J | 820 | 1/16W | Chip 1608 | AA |
| R8144 | 9DK001-50176 | J | 820 | 1/16W | Chip 1608 | AA |
| R8145 | 9DK001-50176 | J | 820 | 1/16W | Chip 1608 | AA |
| R8146 | 9DK001-50165 | J | 100 | 1/16W | Chip 1608 | AA |
| R8147 | 9DK001-50165 | J | 100 | 1/16W | Chip 1608 | AA |
| R8148 | 9DK001-50165 | J | 100 | 1/16W | Chip 1608 | AA |
| R8151 | 9DK001-50177 | J | 1k | 1/16W | Chip 1608 | AA |
| R8152 | 9DK001-50208 | J | 12k | 1/16W | Chip 1608 | AA |
| R8153 | 9DK001-50177 | J | 1k | 1/16W | Chip 1608 | AA |
| R8154 | 9DK001-50177 | J | 1k | 1/16W | Chip 1608 | AA |
| R8155 | 9DK001-50161 | J | 47 | 1/16W | Chip 1608 | AA |
| R8156 | 9DK001-50210 | J | 33k | 1/16W | Chip 1608 | AA |
| R8157 | 9DK001-50398 | J | 3.9k | 1/16W | Chip 1608 | AA |
| R8158 | 9DK001-50191 | J | 150 | 1/16W | Chip 1608 | AB |
| R8159 | 9DK001-50196 | J | 1.1k | 1/16W | Chip 1608 | AB |
| R8160 | 9DK001-50177 | J | 1k | 1/16W | Chip 1608 | AA |
| R8161 | 9DK001-50173 | J | 470 | 1/16W | Chip 1608 | AA |
| R8162 | 9DK001-50174 | J | 560 | 1/16W | Chip 1608 | AA |
| R8163 | 9DK001-50174 | J | 560 | 1/16W | Chip 1608 | AA |
| R8165 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8166 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8167 | 9DK001-50177 | J | 1k | 1/16W | Chip 1608 | AA |
| R8168 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8170 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8172 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8178 | 9DK001-50173 | J | 470 | 1/16W | Chip 1608 | AA |
| R8179 | 9DK001-50110 | J | 0 | 1/10W | Chip 2125 | AB |
| R8268 | 9DK001-50162 | J | 56 | 1/16W | Chip 1608 | AA |
| R8289 | 9DK001-50207 | J | 6.8k | 1/16W | Chip 1608 | AA |
| R8296 | 9DK001-50162 | J | 56 | 1/16W | Chip 1608 | AA |
| R8340 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8400 | 9DK001-50075 | J | 75 | 1/10W | Chip 2125 | AB |
| R8401 | 9DK001-50075 | J | 75 | 1/10W | Chip 2125 | AB |
| R8402 | 9DK001-50075 | J | 75 | 1/10W | Chip 2125 | AB |
| R8403 | 9DK001-50075 | J | 75 | 1/10W | Chip 2125 | AB |
| R8404 | 9DK001-50075 | J | 75 | 1/10W | Chip 2125 | AB |
| R8405 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8405 | 9DK001-50075 | J | 75 | 1/10W | Chip 2125 | AB |
| R8408 | 9DK001-50176 | J | 820 | 1/16W | Chip 1608 | AA |
| R8410 | 9DK001-50150 | J | 10 | 1/16W | Chip 1608 | AA |
| R8411 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8412 | 9DK001-50150 | J | 10 | 1/16W | Chip 1608 | AA |
| R8416 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8417 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8418 | 9DK001-50183 | J | 4.7k | 1/16W | Chip 1608 | AA |
| R8419 | 9DK001-50183 | J | 4.7k | 1/16W | Chip 1608 | AA |
| R8420 | 9DK001-50183 | J | 4.7k | 1/16W | Chip 1608 | AA |
| R8421 | 9DK001-50177 | J | 1k | 1/16W | Chip 1608 | AA |
| R8422 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8425 | 9DK001-50177 | J | 1k | 1/16W | Chip 1608 | AA |
| R8426 | 9DK001-50177 | J | 1k | 1/16W | Chip 1608 | AA |
| R8427 | 9DK001-50177 | J | 1k | 1/16W | Chip 1608 | AA |
| R8447 | 9DK001-50150 | J | 10 | 1/16W | Chip 1608 | AA |
| R8448 | 9DK001-50150 | J | 10 | 1/16W | Chip 1608 | AA |
| R8476 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8477 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8478 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8483 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8488 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8492 | 9DK001-50306 | J | 390 | 1/16W | Chip 1608 | AA |
| R8568 | 9DK001-50162 | J | 56 | 1/16W | Chip 1608 | AA |
| R8593 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8598 | 9DK001-50162 | J | 56 | 1/16W | Chip 1608 | AA |
| R8599 | 9DK001-50162 | J | 56 | 1/16W | Chip 1608 | AA |
| R8601 | 9DK001-50162 | J | 56 | 1/16W | Chip 1608 | AA |
| R8602 | 9DK001-50162 | J | 56 | 1/16W | Chip 1608 | AA |
| R8648 | 9DK001-50165 | J | 100 | 1/16W | Chip 1608 | AA |
| R8649 | 9DK001-50165 | J | 100 | 1/16W | Chip 1608 | AA |
| R8650 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8651 | 9DK001-51037 | J | 6.8k | 1/16W | Chip | AD |
| R8652 | 9DK001-51030 | J | 10k | 1/16W | Chip | AD |
| R8653 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8654 | 9DK001-50204 | J | 150 | 1/16W | Chip 1608 | AA |
| R8655 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8656 | 9DK001-50183 | J | 4.7k | 1/16W | Chip 1608 | AA |

# CPCi-A008CE01
## PC I/F UNIT(Continued)

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| R8657 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8658 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8685 | 9DK001-50150 | J | 10 | 1/16W | Chip 1608 | AA |
| R8688 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8689 | 9DK001-50173 | J | 470 | 1/16W | Chip 1608 | AA |
| R8690 | 9DK001-50205 | J | 1.8k | 1/16W | Chip 1608 | AA |
| R8692 | 9DK001-50159 | J | 22 | 1/16W | Chip 1608 | AA |
| R8693 | 9DK001-50159 | J | 22 | 1/16W | Chip 1608 | AA |
| R8694 | 9DK001-50159 | J | 22 | 1/16W | Chip 1608 | AA |
| R8695 | 9DK001-50159 | J | 22 | 1/16W | Chip 1608 | AA |
| R8696 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8697 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8698 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8699 | 9DK001-50185 | J | 10k | 1/16W | Chip 1608 | AA |
| R8700 | 9DK001-50218 | J | 20k | 1/16W | Chip 1608 | AA |
| R8701 | 9DK001-50257 | J | 75 | 1/16W | Chip 1608 | AA |
| R8741 | 9DK001-50159 | J | 22 | 1/16W | Chip 1608 | AA |
| R8750 | 9DK001-50177 | J | 1k | 1/16W | Chip 1608 | AA |
| R8751 | 9DK001-50177 | J | 1k | 1/16W | Chip 1608 | AA |
| R8752 | 9DK001-50170 | J | 270 | 1/16W | Chip 1608 | AA |
| R8753 | 9DK001-50170 | J | 270 | 1/16W | Chip 1608 | AA |
| R8754 | 9DK001-50111 | J | 75 | 1/4W | Chip 3216 | AB |
| R8755 | 9DK001-50111 | J | 75 | 1/4W | Chip 3216 | AB |
| R8756 | 9DK001-50111 | J | 75 | 1/4W | Chip 3216 | AB |
| R8757 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8758 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8787 | 9DK001-50244 | J | 3.9k | 1/16W | Chip 1608 | AA |
| R8789 | 9DK001-50177 | J | 1k | 1/16W | Chip 1608 | AA |
| R8790 | 9DK001-50179 | J | 2.2k | 1/16W | Chip 1608 | AA |
| R8791 | 9DK001-50244 | J | 3.9k | 1/16W | Chip 1608 | AA |
| R8792 | 9DK001-50179 | J | 2.2k | 1/16W | Chip 1608 | AA |
| R8867 | 9DK001-50275 | J | 6.8 | 1/16W | Chip 1608 | AB |
| R8868 | 9DK001-50275 | J | 6.8 | 1/16W | Chip 1608 | AB |
| R8869 | 9DK001-50275 | J | 6.8 | 1/16W | Chip 1608 | AB |
| R8875 | 9DK001-50162 | J | 56 | 1/16W | Chip 1608 | AA |
| R8911 | 9DK001-50177 | J | 1k | 1/16W | Chip 1608 | AA |
| R8913 | 9DK001-50075 | J | 75 | 1/10W | Chip 2125 | AB |
| R8918 | 9DK001-51039 | J | 56 | 1/16W | Chip | AD |
| R8922 | 9DK001-51039 | J | 56 | 1/16W | Chip | AD |
| R8924 | 9DK001-51039 | J | 56 | 1/16W | Chip | AD |
| R8925 | 9DK001-51039 | J | 56 | 1/16W | Chip | AD |
| R8926 | 9DK001-51039 | J | 56 | 1/16W | Chip | AD |
| R8927 | 9DK001-51039 | J | 56 | 1/16W | Chip | AD |
| R8929 | 9DK001-51039 | J | 56 | 1/16W | Chip | AD |
| R8930 | 9DK001-51039 | J | 56 | 1/16W | Chip | AD |
| R8931 | 9DK001-51039 | J | 56 | 1/16W | Chip | AD |
| R8933 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8935 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8970 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8971 | 9DK001-50150 | J | 10 | 1/16W | Chip 1608 | AA |
| R8972 | 9DK001-50150 | J | 10 | 1/16W | Chip 1608 | AA |
| R8973 | 9DK001-50150 | J | 10 | 1/16W | Chip 1608 | AA |
| R8974 | 9DK001-50150 | J | 10 | 1/16W | Chip 1608 | AA |
| R8977 | 9DK001-50150 | J | 10 | 1/16W | Chip 1608 | AA |
| R8979 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8981 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8982 | 9DK001-50183 | J | 4.7k | 1/16W | Chip 1608 | AA |
| R8983 | 9DK001-50183 | J | 4.7k | 1/16W | Chip 1608 | AA |
| R8985 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8986 | 9DK001-50149 | J | 0 | 1/16W | Chip 1608 | AB |
| R8987 | 9DK001-50161 | J | 47 | 1/16W | Chip 1608 | AA |
| R8988 | 9DK001-50236 | J | 910 | 1/16W | Chip 1608 | AB |
| R8989 | 9DK001-50213 | J | 2.0k | 1/16W | Chip 1608 | AB |
| R8991 | 9DK001-50183 | J | 4.7k | 1/16W | Chip 1608 | AA |
| R8992 | 9DK001-50183 | J | 4.7k | 1/16W | Chip 1608 | AA |
| R8993 | 9DK001-50150 | J | 10 | 1/16W | Chip 1608 | AA |
| R8994 | 9DK001-50150 | J | 10 | 1/16W | Chip 1608 | AA |

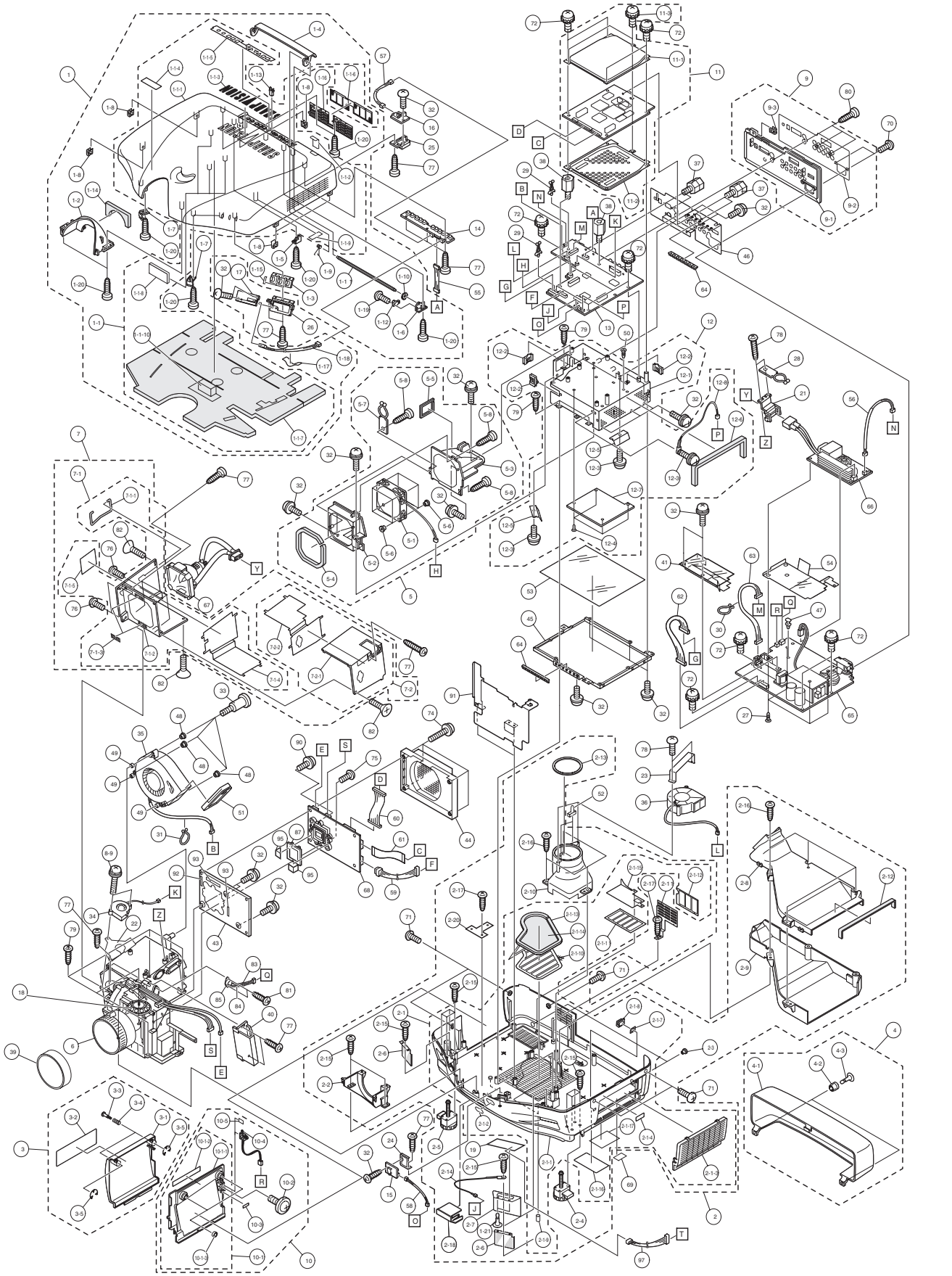
### MISCELLANEOUS PARTS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| S1 | 9DK001-70012 | J | Slide Switch, SSSS812-B-2B | AL |
| J8003 | 9DK001-60057 | J | Connector, 55176-3091 | AP |
| J8005 | 9DK001-60129 | J | Connector, FH12-50S-0.5SH(38) | AK |
| J8006 | 9DK001-60124 | J | Connector, 53261-0590 | AH |
| P8001 | 9DK001-60125 | J | Connector, YKF45-7005 | AS |
| P8404 | 9DK001-60069 | J | Connector, 179029-2 60pin | AS |
| P8405 | 9DK001-60069 | J | Connector, 179029-2 60pin | AS |
| P8502 | 9DK001-60069 | J | Connector, 179029-2 60pin | AS |

# CABINET AND MECHANICAL PARTS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| 1 | *Not Available* | - | Top Body Ass'y | — |
| 1-1 | DBDYTA051WJ01 | J | Top Body Ass'y | BX |
| 1-1-1 | *Not Available* | - | Top Body | — |
| 1-1-2 | GCOVA1981CESA | J | Rear R/C Cover | AE |
| 1-1-3 | HBDGS3153CESA | J | SHARP VISION Badge | AQ |
| 1-1-4 | HiNDP5799CESA | J | Lens Warning Label | AD |
| 1-1-5 | HiNDPA702WJSA | J | Operation Indication | AG |
| 1-1-6 | PFILD0139CEZZ | J | Back Intake Filter | AH |
| 1-1-7 | PMLT-0395CEZZ | U | Molt | AX |
| 1-1-8 | PSPAH0708CEZZ | J | Spacer, x3 | AC |
| 1-1-9 | PSPAH0709CEZZ | J | Spacer | AB |
| 1-1-10 | PSLDMA158WJZZ | J | EMI Gasket | AL |
| 1-2 | GCOVA1989CEKA | J | Lens Cover (Upper) | AY |
| 1-3 | GCOVA1991CEZZ | J | LED Decoration | AG |
| 1-4 | GDORT1097CEKC | J | Opration Door | AR |
| 1-5 | LANGT9027CEFD | J | Door Shaft Angle A | AF |
| 1-6 | LANGT9029CEFD | J | Door Shaft Angle B | AG |
| 1-7 | LANGT9030CEFW | U | Connection Angle | AE |
| 1-8 | LX-NZ3155CEFF | J | Speed Nut, x6 | AF |
| 1-9 | MSPRD0087CEFW | J | Door Spring | AD |
| 1-10 | NGERH3000CEFD | J | Door Gear | AF |
| 1-11 | NSFTZ0177CEFW | J | Door Shaft | AH |
| 1-12 | PDMPF0102CEZZ | J | Dumper | AG |
| 1-13 | PKAi-0004GEZZ | J | Latch | AK |
| 1-14 | PMLT-0397CEZZ | J | Lens Molt | AE |
| 1-15 | PMLT-0398CEZZ | J | LED Molt, x2 | AA |
| 1-16 | PSLDP3090CE00 | J | Rubber A | AK |
| 1-17 | PSPAT0020CEZZ | J | Tefron Tape | AD |
| 1-18 | QCNW-B859WJQZ | J | Connecting Cord(RE) | AH |
| 1-19 | XBBSF20P05000 | J | Screw | AA |
| 1-20 | XEBSD30P10000 | J | Screw, x8 | AA |
| 1-21 | LHLDF1057CEZZ | J | IRIS DRIVE Unit Holder | AB |
| 2 | *Not Available* | - | Bottom Body Ass'y | — |
| 2-1 | DBDYUA052WJ01 | J | Bottom Body Ass'y (XV-Z12000U) | BX |
| 2-1 | DBDYUA052WJ03 | J | Bottom Body Ass'y (XV-Z12000D/E/H/K/M) | BX |
| 2-1 | DBDYUA052WJ04 | J | Bottom Body Ass'y (XV-Z12000X) | BX |
| 2-1-1 | *Not Available* | - | Bottom Body | — |
| 2-1-2 | GCOVA1980CESA | J | Front R/C Cover | AE |
| 2-1-3 | GCOVA2016CEKD | J | Exhaust Panel | BG |
| 2-1-4 | HiNDP5781CESF | J | Hot Caution | AE |
| 2-1-7 | LANGF2134CEFW | J | K Lock | AE |
| 2-1-8 | LHLDZ2077CEKZ | J | K Lock Cover | AD |
| 2-1-9 | LX-NZ3135CEFW | J | Insert Nut, x3 | AD |
| 2-1-10 | PFILD0135CEZZ | J | Intake Filter A | AM |
| 2-1-11 | PFILD0136CEZZ | J | Intake Filter B | AG |
| 2-1-12 | PFILD0137CEZZ | J | Intake Filter | AG |
| 2-1-13 | PMLT-0400CEZZ | J | Molt | AD |
| 2-1-14 | PMLT-0403CEZZ | J | Molt | AG |
| 2-1-15 | PSLDP3092CE00 | J | Rubber Button | AG |
| 2-1-16 | HiNDPA665WJZZ | J | FCC Label (XV-Z12000U) | AF |
| 2-1-16 | HiNDPA807WJZZ | J | FCC Label (XV-Z12000M) | |
| 2-1-17 | HiNDPA662WJZZ | J | Model Label (XV-Z12000U) | AK |
| 2-1-17 | HiNDPA741WJZZ | J | Model Label (XV-Z12000D/E/H/K/M) | AK |
| 2-1-17 | HiNDPA808WJZZ | J | Model Label (XV-Z12000X) | AK |
| 2-2 | GCOVA1990CEKA | J | Lens Cover (Lower) | AY |
| 2-3 | GCOVAA454WJKB | J | Hole Cover, x2 | AB |
| 2-4 | GLEGP1020CEKE | J | Adjuster (R) | AU |
| 2-5 | GLEGP3019CEKE | J | Adjuster (L) | AU |
| 2-6 | HPNC-0469CESA | J | Intake Punching, x2 | AK |
| 2-7 | PCOVUA023WJFW | J | Intake Cover | AF |
| 2-8 | PDUC-0147CEKZ | J | Out Duct 1 | AV |
| 2-9 | PDUC-0148CEKZ | J | Out Duct 2 | AV |
| 2-10 | PDUC-0159CEKZ | J | Intake Duct | AN |
| 2-11 | PSLDP3091CE00 | J | Rubber B | AK |
| 2-12 | PSPAZ0428CEZZ | J | Duct Spacer | AD |
| 2-13 | PSPAZ0443CEZZ | J | Duct Spacer | AG |
| 2-14 | RH-HXA009WJQZ | J | Thermistor-A | AM |
| 2-15 | XEBSD30P12000 | J | Screw, x12 | AA |
| 2-16 | XEBSD40P16000 | J | Bottom Spacer, x7 | AA |
| 2-17 | XEPSD30P06000 | J | Screw, x2 | AA |
| 2-18 | GCOVAA586WJKA | J | Blank Cover | AP |
| 3 | CCOVA1984CE05 | J | Lamp Door Ass'y | BB |
| 3-1 | *Not Available* | - | Lamp Door | — |
| 3-2 | HiNDPA680WJSA | J | Lamp Caution Label | AH |
| 3-3 | LX-BZ1009CEFN | J | Screw, x2 | AE |
| 3-4 | MSPRC0202CEFW | J | Door Spring, x2 | AB |
| 3-5 | XRESJ30-06000 | J | E-Ring, x2 | AA |
| 4 | CCOVA1985CE03 | J | Terminal Cover Ass'y | AU |
| 4-1 | *Not Available* | - | Terminal Cover | — |
| 4-2 | PCLiC1034CEKZ | J | Cover Clip | AC |
| 4-3 | PCLiC1035CEKZ | J | Cover Clip Plun | AC |
| 4-4 | SSAKA1109CEZZ | J | Cover Sack | AH |
| 5 | CDUC-0154CE01 | J | HDDE Duct Ass'y | BA |
| 5-1 | NFANR0072CE00 | J | Fan | AX |
| 5-2 | *Not Available* | - | Power Duct A | — |
| 5-3 | PDUC-0154CEKZ | J | Power Duct B | AK |
| 5-4 | PMLT-0393CEZZ | J | Power Molt A | AC |
| 5-5 | PMLT-0394CEZZ | J | Power Molt B | AD |
| 5-6 | PSPAZ0445CEZZ | J | Fan Spacer | AC |
| 5-7 | LHLDW1046CEZZ | J | Wire Holder | AA |
| 5-8 | XEBSD30P12000 | J | Screw, x3 | AA |
| 6 | *Refer to Optics Mechanism Parts* | | | |
| 7 | *Refer to Optics Mechanism Parts* | | | |
| 8 | *Refer to Optics Mechanism Parts* | | | |
| 9 | DPNLH1107CE06 | J | Rear Body Ass'y | BD |
| 9-1 | *Not Available* | - | Rear Body Ass'y | — |
| 9-2 | HiNDPA257WJSA | J | Rear Indicator | AL |
| 9-3 | LX-NZ3155CEFF | J | Speed Nut | AF |
| 10 | *Not Available* | - | Lamp Panel Ass'y | — |
| 10-1 | DPNLC1733CE06 | J | Lamp Panel Ass'y | BB |
| 10-1-1 | *Not Available* | - | Lamp Panel | — |
| 10-1-2 | HiNDP5848CESC | J | Inter Lock Indication | AG |
| 10-1-3 | LX-NZ3135CEFW | J | Nut, 2 | AD |
| 10-2 | LX-HZ3105CEFD | J | Screw | AB |
| 10-3 | PSPAT0080CEZZ | J | Tefron Tape | AB |
| 10-4 | QCNW-B857WJQZ | J | Door Switch | AG |
| 10-5 | PCOVWA001CEKZ | J | Insulation Cover | AC |
| 11 | CPCI-A008CE01 | - | PC I/F Unit Ass'y | — |
| 11-1 | PSLDM3044CEFW | J | PC I/F Shield (Upper) | AK |
| 11-2 | PSLDM3045CEFW | J | PC I/F Shield (Lower) | AL |
| 11-3 | XBPSD30P06R00 | J | Screw | AB |
| 12 | CSLDM3042CE02 | J | Shield Ass'y | BC |
| 12-1 | *Not Available* | - | Power Unit Shield | — |
| 12-2 | LHLDW1220CEZZ | J | Cover | AD |
| 12-3 | LX-BZ3266CEFD | J | Screw, x3 | AA |
| 12-4 | LX-LZ1014GE00 | J | Rivet | AA |
| 12-5 | PGIDM0162CEKZ | J | Ventilating Guide B | AD |
| 12-6 | PMLT-0399CEZZ | J | Power Shield Molt | AG |
| 12-7 | PSHEG0033CEZZ | J | Radiator Sheet | AV |
| 12-8 | RH-HXA010WJQZ | J | Thermistor-B | AL |
| 13 | *Not Available* | - | Main Unit | — |
| 14 | *Not Available* | - | Key Unit | — |
| 15 | *Not Available* | - | R/C Receiver (Front) Unit | — |
| 16 | *Not Available* | - | R/C Receiver (Rear) Unit | — |
| 17 | *Not Available* | - | LED Unit | — |
| 18 | JKNBZ1082CEKD | J | Lens Shift Knob | AK |
| 19 | *Not Available* | - | IRIS DRIVE Unit | — |
| 21 | LANGKA113WJFW | J | Lamp Socket Angle | AF |
| 22 | LANGK0783CEFW | J | Color Wheel Fan Angle | AH |
| 23 | LANGK0786CEFW | J | Fan Angle | AH |
| 24 | LANGQ5725CEFW | J | R/C Receiver (Front) Fixing Angle | AF |

# CABINET AND MECHANICAL PARTS/
# GEHÄUSE UND MECHANISCHE BAUTEILE



| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|

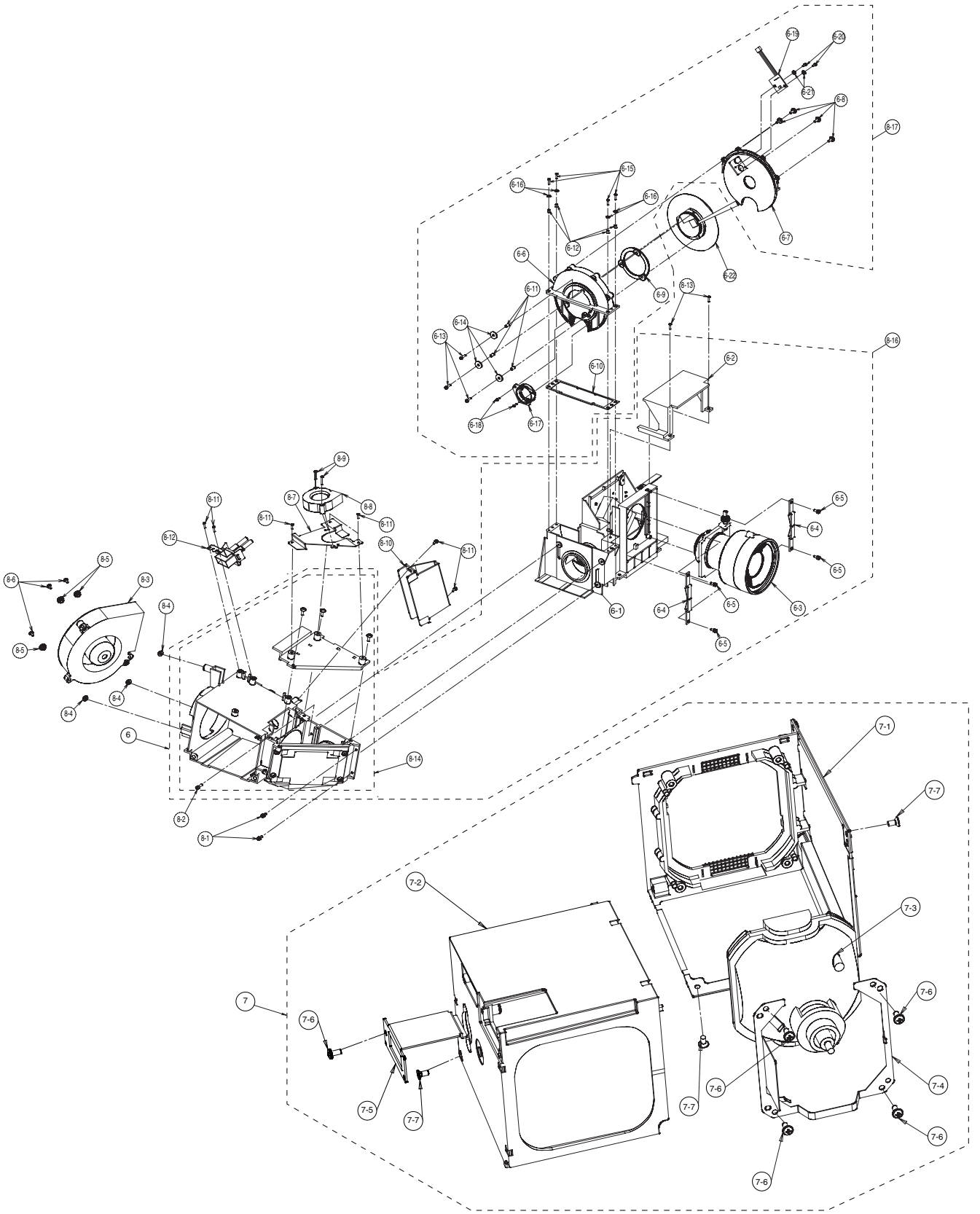
# CABINET AND MECHANICAL PARTS (Continued)

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| 25 | LANGQ5726CEFW | J | R/C Receiver (Rear) Fixing Angle | AF |
| 26 | LANGQ5727CEFW | J | LED PWB Fixing Angle | AG |
| 27 | LHLDF1201CEZZ | J | Ballast Holder | AD |
| 28 | LHLDW1046CEZZ | J | Wire Holder | AA |
| 29 | LHLDW1047CEUZ | J | Wire Holder | AA |
| 30 | LHLDW1060CEZZ | J | Wire Holder | AB |
| 31 | LHLDW1064CEZZ | J | Wire Holder | AB |
| 32 | LX-BZ3266CEFD | J | Screw, x20 | AA |
| 33 | LX-EZ3011CEFD | J | Screw, x3 | AC |
| 34 | NFANSA013WJ00 | J | Color Wheel Fan | AW |
| 35 | NFANS0029CEZZ | J | Out Fan | BC |
| 36 | NFANSA008WJ00 | J | PWB Cooling fan | AX |
| 37 | NSFTZ0134CEFW | J | D-Sub Nut | AD |
| 38 | NSFTZ0178CEFW | J | PWB Shaft | AF |
| 39 | PCAPH1056CESA | J | Lens Cap | AW |
| 40 | PDUC-0158CEKZ | J | Inner Guide | AM |
| 41 | PGiDM0160CEKZ | J | Ventilating Guide A | AL |
| 43 | PSLDMA099WJFW | J | Formatter Shield A | AP |
| 44 | PSLDMA100WJFW | J | Formatter Shield B | AR |
| 45 | PSLDM3041CEFW | J | Power Unit Frame | AP |
| 46 | PSLDMA140WJFW | J | Rear terminal Shield | AH |
| 47 | PSPAN0022CEKZ | J | Spacer | AC |
| 48 | PSPAGA036WJZZ | J | Out-Fan Bush | AE |
| 49 | PSPAZA178WJZZ | J | Fan Spacer | AC |
| 50 | PSPAZ0435CEKZ | J | PWB Spacer | AC |
| 51 | PSPAZ0441CEZZ | J | Out Fan Spacer | AD |
| 52 | PSPAZ0445CEZZ | J | Fan Spacer | AC |
| 53 | PZETK0139CEKZ | J | Insulation Sheet (Power) | AM |
| 54 | PZETKA012WJKZ | J | Insulation Sheet (Ballast) | AP |
| 55 | QCNW-B858WJQZ | J | Connecting Wire (KY) | AL |
| 56 | QCNW-B866WJQZ | J | Connecting Wire (CA) | AG |
| 57 | QCNW-B860WJPZ | J | R/C Wire (Rear) | AF |
| 58 | QCNW-B861WJPZ | J | R/C Wire (Front) | AG |
| 59 | QCNW-B864WJQZ | J | Connecting Wire (J2) | AH |
| 60 | QCNW-B865WJQZ | J | Connecting Wire (J3) | AW |
| 61 | QPWBHB718WJZZ | J | Connecting Wire (J5) | AT |
| 62 | QCNW-B862WJQZ | J | Connecting Wire (EA) | AL |
| 63 | QCNW-B863WJQZ | J | Connecting Wire (EB) | AK |
| 64 | QEARZA001WJZZ | J | Earth, x2 | AL |
| 65 | *Not Available* | - | Power Unit | — |
| 66 | *Not Available* | - | Ballast unit | — |
| ⚠ 67 | BQC-XVZ100005 | J | Lamp | CQ |
| 68 | *Not Available* | - | Formatter unit | — |
| 69 | *Not Available* | - | S/I No. Label | — |
| 70 | XBBSN30P10000 | J | Screw, x2 | AA |
| 71 | XBBSN40P10000 | J | Screw, x6 | AB |
| 72 | XBPSD30P08R00 | J | Screw, x13 | AB |
| 74 | XBPSD30P18JS0 | J | Screw, x4 | AA |
| 75 | LX-BZA026WJFD | J | Screw, x3 | AB |
| 76 | XBTSC40P12000 | J | Screw, x3 | AB |
| 77 | XEBSD30P08000 | J | Screw, x12 | AA |
| 78 | XEBSD30P10000 | J | Screw, x4 | AA |
| 79 | XEBSD40P16000 | J | Screw, x10 | AA |
| 80 | XEBSN30P10000 | J | Screw, x3 | AA |
| 81 | XEPSD30P06000 | J | Screw, x2 | AA |
| 82 | XESSF30P08000 | J | Screw, x3 | AA |
| 83 | LHLDW1033CEKZ | J | Wire Holder | AA |
| 84 | QCNW-5966CEZZ | J | for Bimetal | AE |
| 85 | CBIM-0104DE03 | J | Bimetal Ass'y | AQ |
| 87 | PSLDPA009WJ00 | J | DMD-Shield | AQ |
| 90 | LX-BZA012WJFE | J | Screw, x4 | AC |
| 91 | PZETKA032WJKZ | J | Ventilating Guide | AL |
| 92 | PSLDMA169WJZZ | J | Gasket | AD |
| 93 | PSLDMA170WJZZ | J | Gasket | AF |
| 95 | QEARBA007WJFW | J | DMD Erath Spring | AE |
| 97 | QCNW-B867WJQZ | J | Connecting Wire (J6) | AG |

# OPTICS MECHANISM PARTS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| 6-1 | 9HN-3650-0510 | J | Body Ass'y | DF |
| 6-2 | 9HN-3623-0042 | J | Cover Ass'y | AX |
| 6-3 | PLNS-A040WJZZ | J | Projection Lens | DF |
| 6-4 | 9HN-3623-0043 | J | Projection Lens Fixin Plate Ass'y, x2 | AR |
| 6-5 | 9HN-9670-03067 | J | Screw, x4 | AC |
| 6-6 | 9HN-3623-4171 | J | Color Wheel Cover 1 | AX |
| 6-7 | 9HN-3623-0044 | J | Color Wheel Cover 2 Ass'y | BC |
| 6-8 | 9HN-9739-03087 | J | Screw, x4 | AB |
| 6-9 | 9HN-3623-4173 | J | Dumpping Rubber A | AV |
| 6-10 | 9HN-3623-4174 | J | Dumpping Rubber B | AS |
| 6-11 | 9HN-3623-4175 | J | Spacer A, x3 | AE |
| 6-12 | 9HN-3623-4177 | J | Spacer B, x4 | AE |
| 6-13 | 9HN-9642-26107 | J | Screw, x3 | AB |
| 6-14 | 9HN-3623-4176 | J | Washer, x3 | AC |
| 6-15 | 9HN-9612-20807 | J | Screw, x4 | AB |
| 6-16 | 9HN-9716-02007 | J | Washer, x4 | AC |
| 6-17 | 9HN-3623-0045 | J | G7 Lens Ass'y | BH |
| 6-18 | 9HN-9762-20607 | J | Screw, x2 | AB |
| 6-19 | 9HN-3623-4152 | J | Color Wheel Sensor PWB | BE |
| 6-20 | 9HN-9670-02047 | J | Screw, x2 | AD |
| 6-21 | 9HN-9716-02007 | J | Washer, x2 | AC |
| 6-22 | CMIR-A035WJ02 | J | Color Wheel | CK |
| ⚠ 7 | BQC-XVZ100005 | J | Lamp Unit | CQ |
| 7-1 | CCASZA003WJ02 | J | Lamp Case (A) Ass'y | AX |
| 7-1-1 | LHLDZ3058CEFW | J | Handle | AE |
| 7-1-2 | *Not Available* | - | Lamp Case A | — |
| 7-1-3 | PCOVZA008WJFW | J | Punching | AF |
| 7-1-4 | PSLDPA012WJFW | J | Shield | AM |
| 7-1-5 | TLABZA461WJZZ | J | Caution Label | AE |
| 7-2 | CCASZA004WJ01 | J | Lamp Case (B) Ass'y | AU |
| 7-2-1 | *Not Available* | J | Lamp Case B | — |
| 7-2-2 | PSLDPA011WJFW | J | Shield B | AM |
| ⚠ 7-3 | RLMPFA006WJN1 | J | Lamp | CL |
| 7-4 | LANGKA094WJFW | J | Reflection Plate Angle | AM |
| 7-5 | LANGK0773CEFW | J | Lamp Plug Angle | AE |
| 7-6 | XEBSD30P08000 | J | Screw, x5 | AA |
| 7-7 | XESSF30P08000 | J | Screw, x3 | AA |
| 8-1 | 9HN-9670-03067 | J | Screw, x2 | AC |
| 8-2 | 9HN-9670-03107 | J | Screw | AC |
| 8-3 | NFANS0029CEZZ | J | Exhaust Fan | BC |
| 8-4 | PSPAZA178WJZZ | J | Exhaust Fan Spacer, x3 | AC |
| 8-5 | PSPAGA036WJZZ | J | Exhaust Fan Bush, x3 | AE |
| 8-6 | LX-EZ3011CEFD | J | Screw, x3 | AC |
| 8-7 | LANGK0783CEFW | J | Color Wheel Fan Angle | AH |
| 8-8 | NFANSA013WJ00 | J | Color Wheel Fan | AW |
| 8-9 | XBPSD30P30JS0 | J | Screw, x2 | AB |
| 8-10 | PDUC-0158CEKZ | J | Lamp Duct | AM |
| 8-11 | XEBSD30P08000 | J | Screw, x7 | AA |
| 8-12 | LANGKA113WJFW | J | Socket Angle | AF |
| 8-13 | XBPSD30P10JS0 | J | Screw, x2 | AA |
| 8-14 | 9HN-3623-0760 | J | Lamp Box Ass'y | CC |
| 8-16 | 9HN-3650-0570 | J | Lens + Illumination Ass'y | EA |
| 8-17 | 9HN-3650-0580 | J | CW Holder Ass'y | CP |

# OPTICS MECHANISM PARTS/
# TEILE FÜR OPTIKMECHANISMUS




| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

## SUPPLIED ACCESSORIES

| | | | | |
|---|---|---|---|---|
| ⚠ | QACCDA024WJPZ | J | AC Cord for U.S. | AL |
| ⚠ | QACCBA036WJPZ | J | AC Cord for U.K., Hong Kong and Singapore | AX |
| ⚠ | QACCVA011WJPZ | J | AC Cord for Europe without U.K. and Korea | AT |
| ⚠ | QACCLA018WJPZ | J | AC Cord for Australia and New Zealand | AU |
| | RRMCGA216WJSA | J | R/C Unit | BB |
| | UDSKAA040WJZZ | J | CD ROM | AM |
| | TiNS-A970WJZZ | J | Projector Operation manual for U.S. | BA |
| | TiNS-A972WJZZ | J | Projector Operation manual for European 7 language | BD |
| | TiNS-A973WJZZ | J | Projector Operation manual for Chinese, Korean and Arabic language | AZ |
| | TiNS-B097WJZZ | J | CD ROM Operation manual | AL |
| | CCOVA1985CE03 | J | Terminal Cover Ass'y | AU |
| | QCNWGA001WJZZ | J | Video Cable except for U.S. | AN |
| | QCNWGA010WJPZ | J | DVI to 15pin D-Sub Adaptor except for U.S. | AT |
| | QSOCZ0361CEZZ | J | 21pin RCA Conversion Adaptor for Europe without U.K. and Korea | AQ |

### ACCESSORIES (NOT REPLACEMENT ITEM)

| | | | |
|---|---|---|---|
| TCADEA083WJZZ | – | Questionnaire Card | — |
| TCADH1018CEZZ | — | Card (XV-Z12000E/K) | — |
| TCAUZA005WJZZ | – | Caution card | — |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

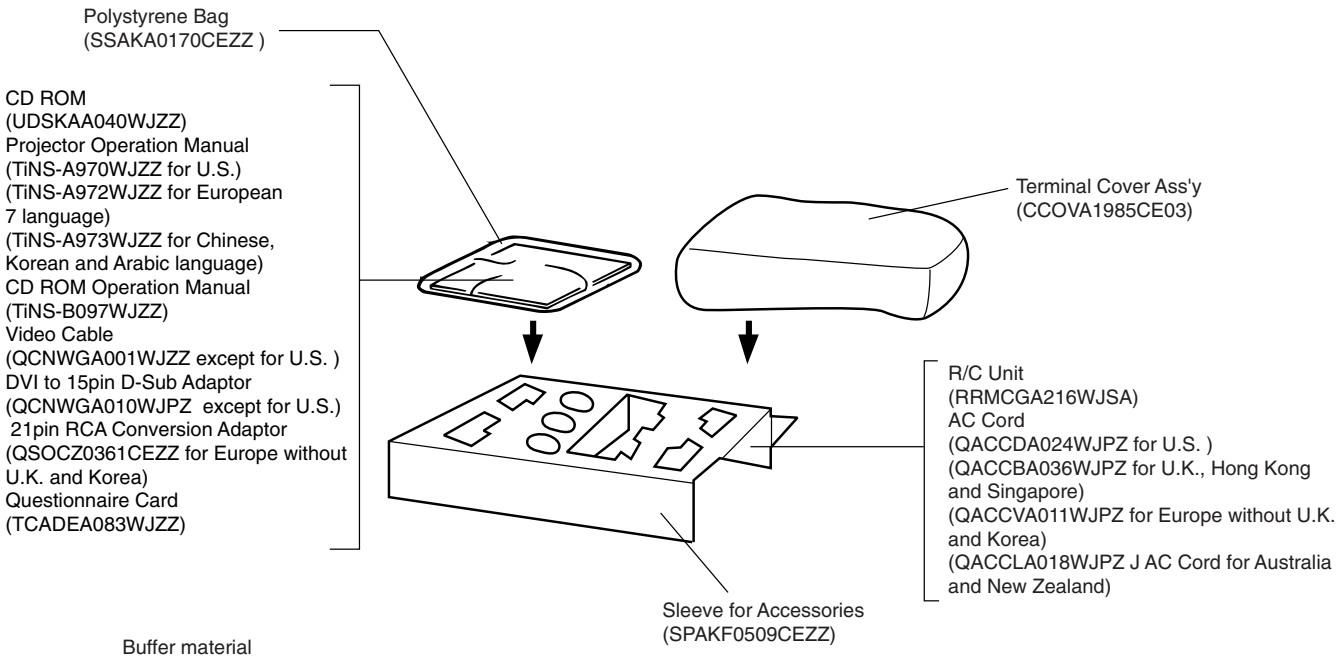
## PACKING PARTS
### (NOT REPLACEMENT ITEM)

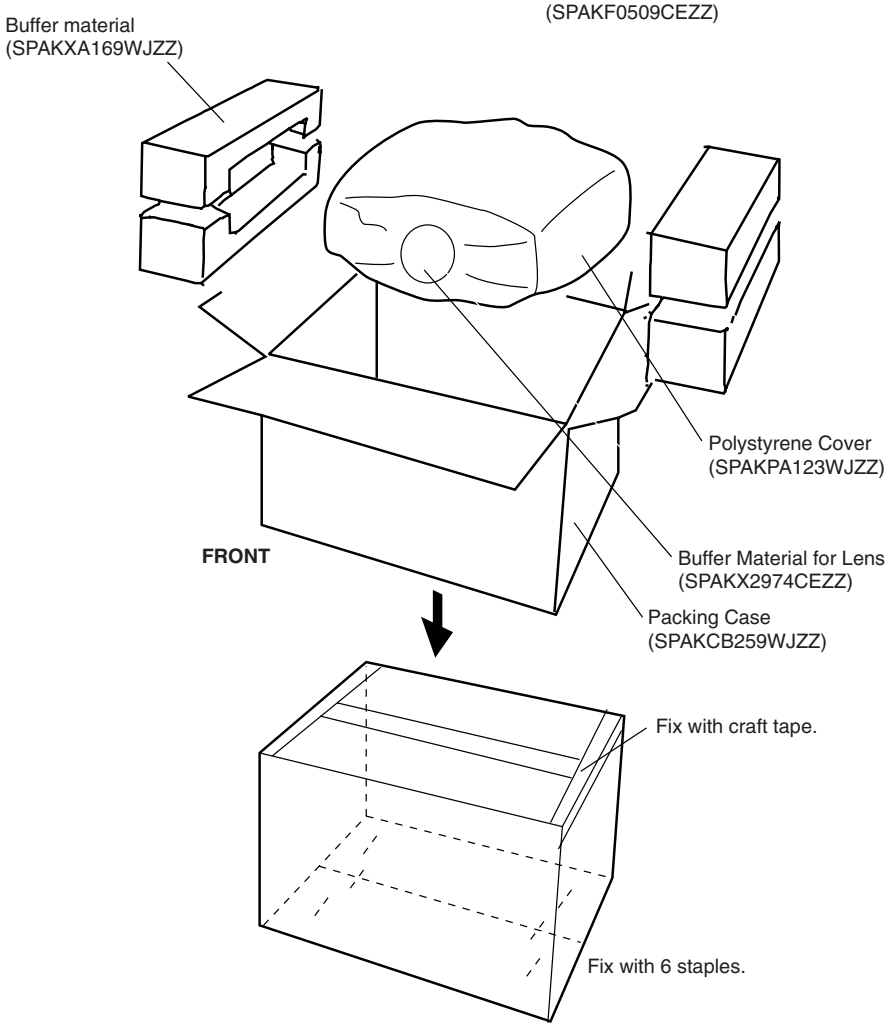
| | | | | |
|---|---|---|---|---|
| | SPAKCB259WJZZ | – | Packing Case | — |
| | SPAKPA123WJZZ | – | Polystyrene Cover | — |
| | SPAKXA169WJZZ | – | Buffer Material | — |
| | SPAKX2974CEZZ | – | Buffer Material for Lens | — |
| | SPAKF0509CEZZ | – | Sleeve(Box for Accessories) | — |
| | TLABK0001TAZZ | – | Number Card | — |
| | SSAKA0170CEZZ | – | Polystyrene Bag (XV-Z12000U) | — |
| | SSAKA1111CEZZ | – | Polystyrene Bag (XV-Z12000D/E/H/K/M/X) | — |

## SERVICE JIGS
### (Use for servicing)

| | | | |
|---|---|---|---|
| QCNW-5057CEZZ | J | Extension Cable 60-pin Main-PC I/F | CD |
| QCNW-5855CEZZ | J | Extension Cable 50-pin PC I/F-Formatter | AL |
| QCNW-A104WJZZ | J | Extension Cable 30-pin PC I/F-Formatter | AW |
| QCNW-A986WJZZ | J | Extension Cable 10-pin Main-PC I/F x3 | AS |

# PACKING OF THE SET / VERPACKEN DES GERÄTS



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MY. DS

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